

Service Manual

AUTO-LOGIC™

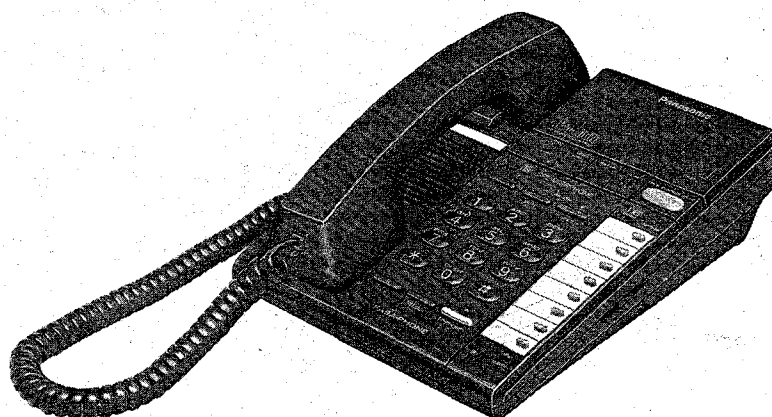
EASA-PHONE®



**Integrated
Telephone System**

Telephone Equipment

KX-T2622



SPECIFICATIONS

General:

Power Source: AC; AC adaptor KX-A11 (DC 12 V)
Power Output: 350 mW (max.)
Speaker: Unit; 6.5 cm (2½") PM dynamic
Handset; 4.5 cm (1¾") PM magnetic type
Microphone: Condenser microphone
Jacks: Telephone line, DC IN
Ringer Equivalence: 1.0B
Dimensions: 170 (W)×222 (D)×94 (H) mm
(with handset)
(6¼"×8¾"×3¼")
Weight: 1.0 kg (2.2 lbs.) without cassette tapes

Telephone Section:

Memory Capacity: 16 telephone numbers, up to 30 digits for each station
Dial Speed: Tone (DTMF)/Pulse (10 pps)
Redial: Last dialed telephone number up to 15 times in 10 minute period
Pause: Time delay

Tape Deck Section:

Incoming Message (ICM): Micro Cassette (MC-60)
Tape Speed: 2.4 cm/s
Wow and Flutter: 0.58% (WRMS)
Motor: Electrical governor motor

Design and specifications are subject to change without notice.

Panasonic

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50 Meadowland Parkway,
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3413

When you mention the serial number, write down the 11 digits. The serial number may be found on the label affixed to the bottom of the unit.

LOCATION OF CONTROLS

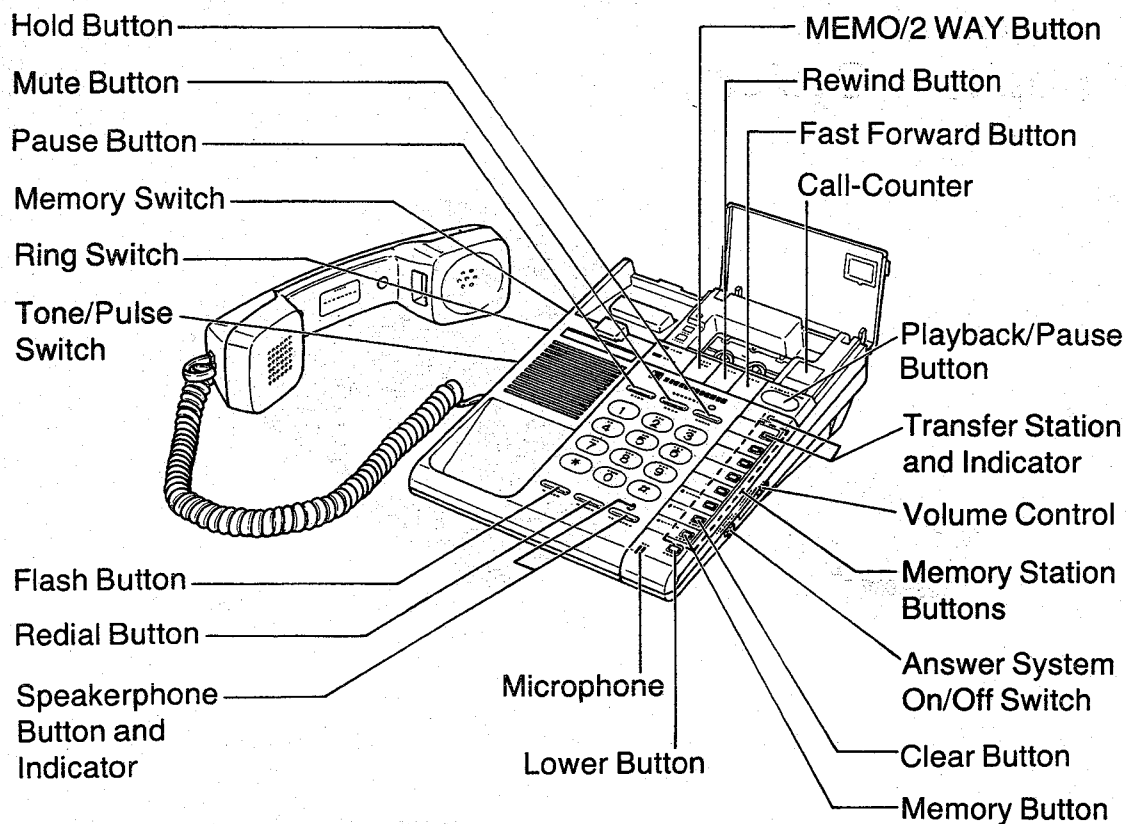


Fig. 1

DISASSEMBLY INSTRUCTIONS

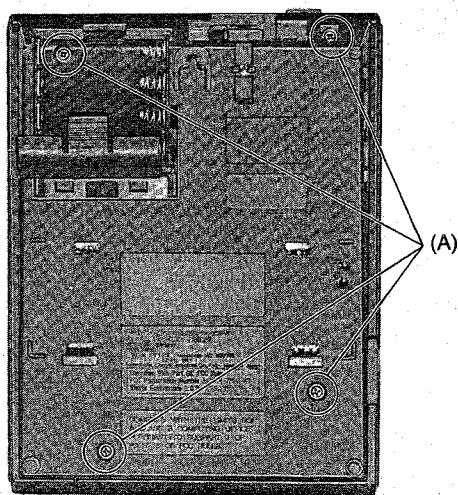


Fig. 2

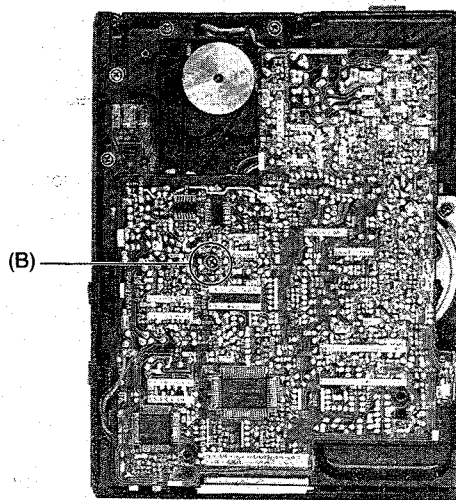


Fig. 3

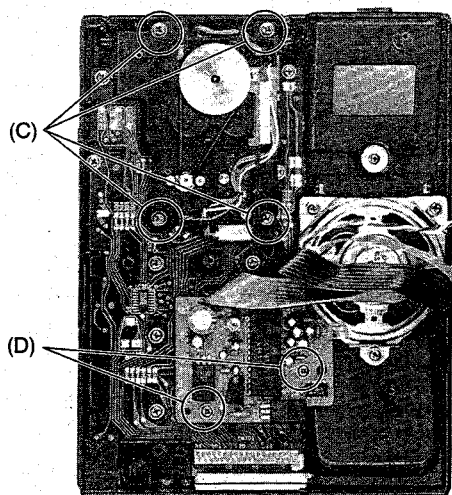


Fig. 4

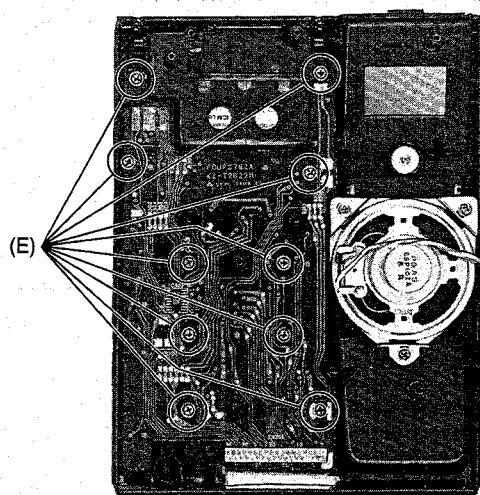


Fig. 5

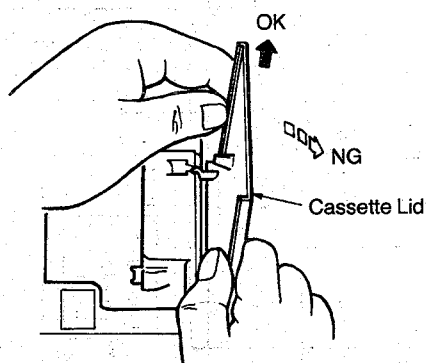


Fig. 6

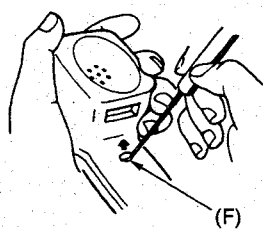


Fig. 7

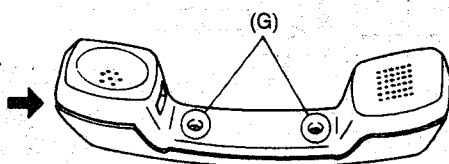


Fig. 8

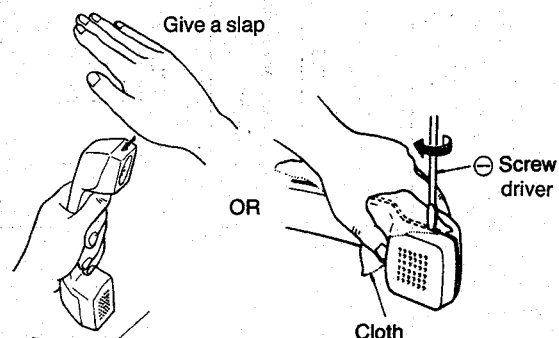


Fig. 9

(Please use thick cloth to prevent scratch the cabinet.)

Ref. No.	Procedure	Shown in Fig.—	To remove—	Remove—
1	1	2	Lower Cabinet	Screws (3×12) (A)×4
2	1, 2	3	Main Printed Circuit Board	Screw (3×10) (B)×1
3	1~3	4	Cassette Deck	Red Screws (3×10) (C)×4
4	1~4	4	Sub Printed Circuit Board	Screws (3×10) (D)×2
5	1~5	5	Dial Board	Screws (3×5) (E)×10
6	6~8	7	Handset Cabinet	Rubbers (F)×2
7		8		Screws (3×10) (G)×2
8		9		Remove the cabinet

*When the cassette lid is removed, pull as shown in Fig. 6.

BLOCK DIAGRAM

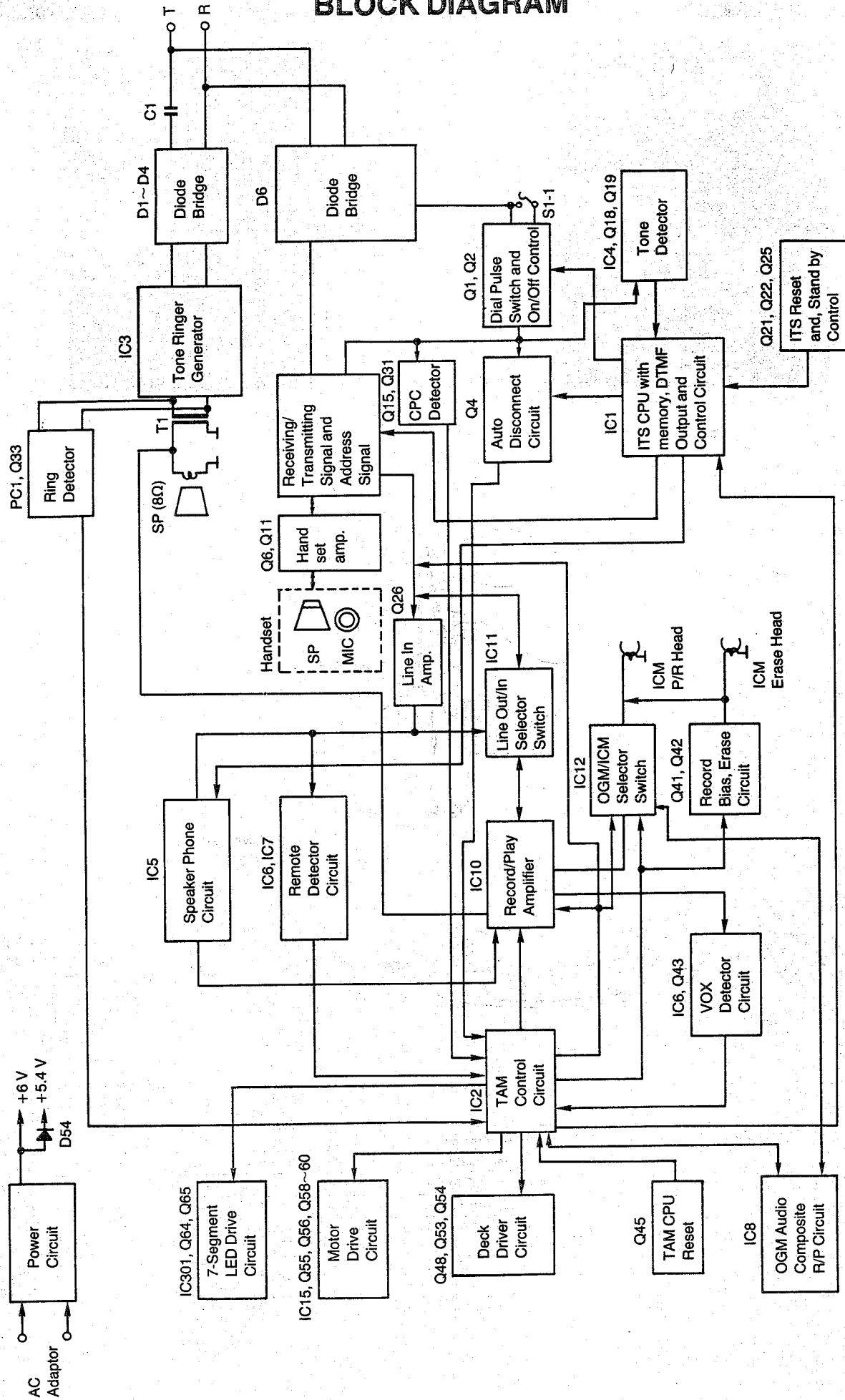
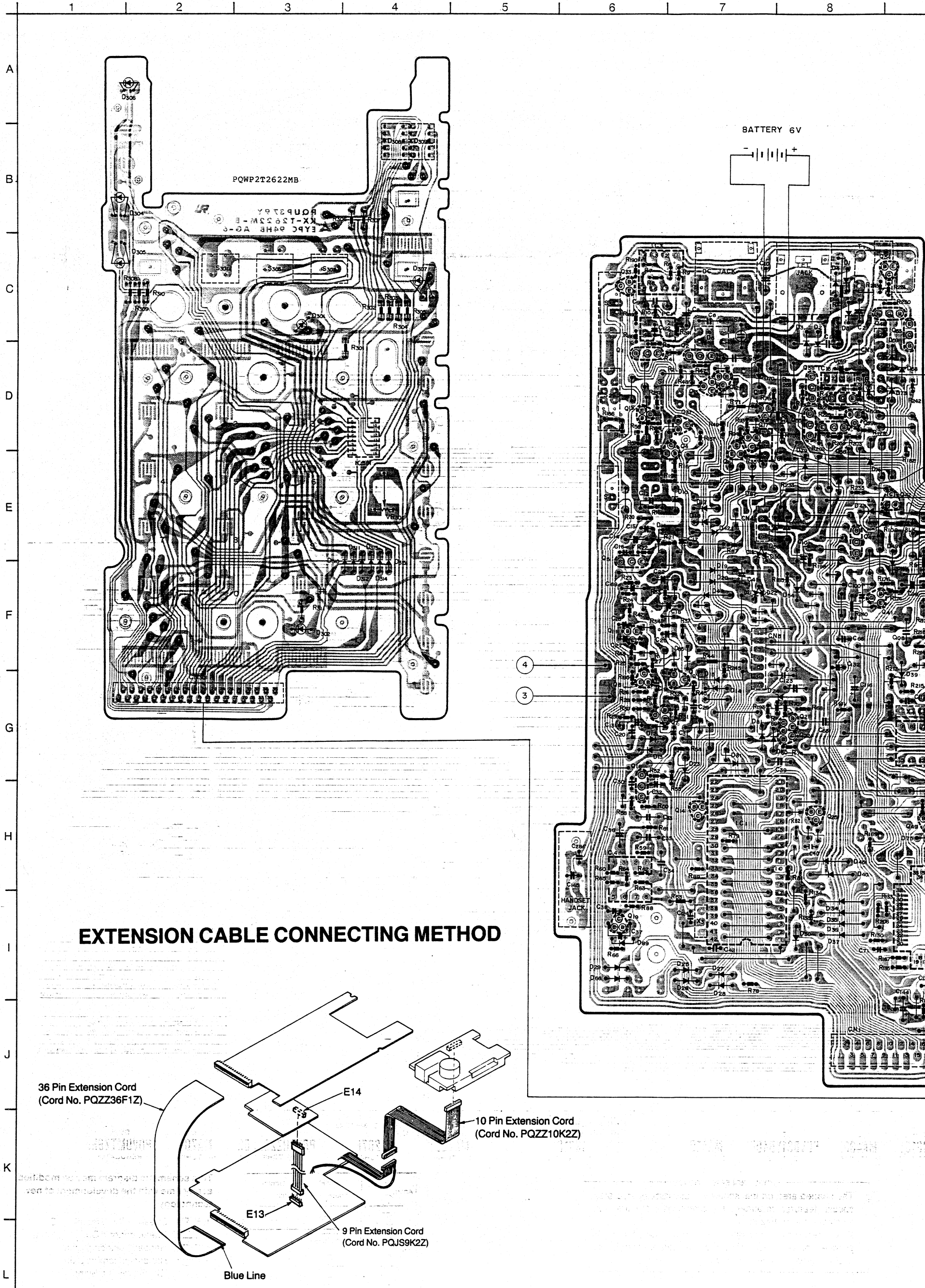


Fig. 10

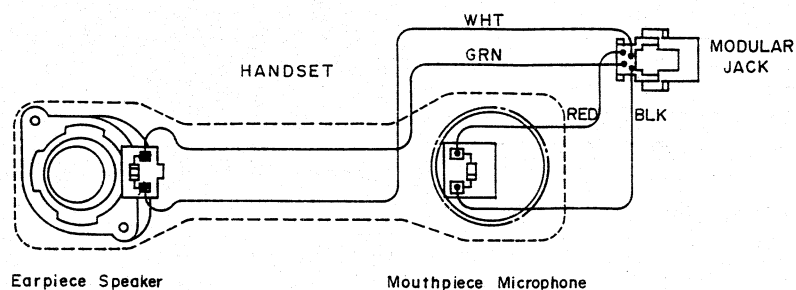
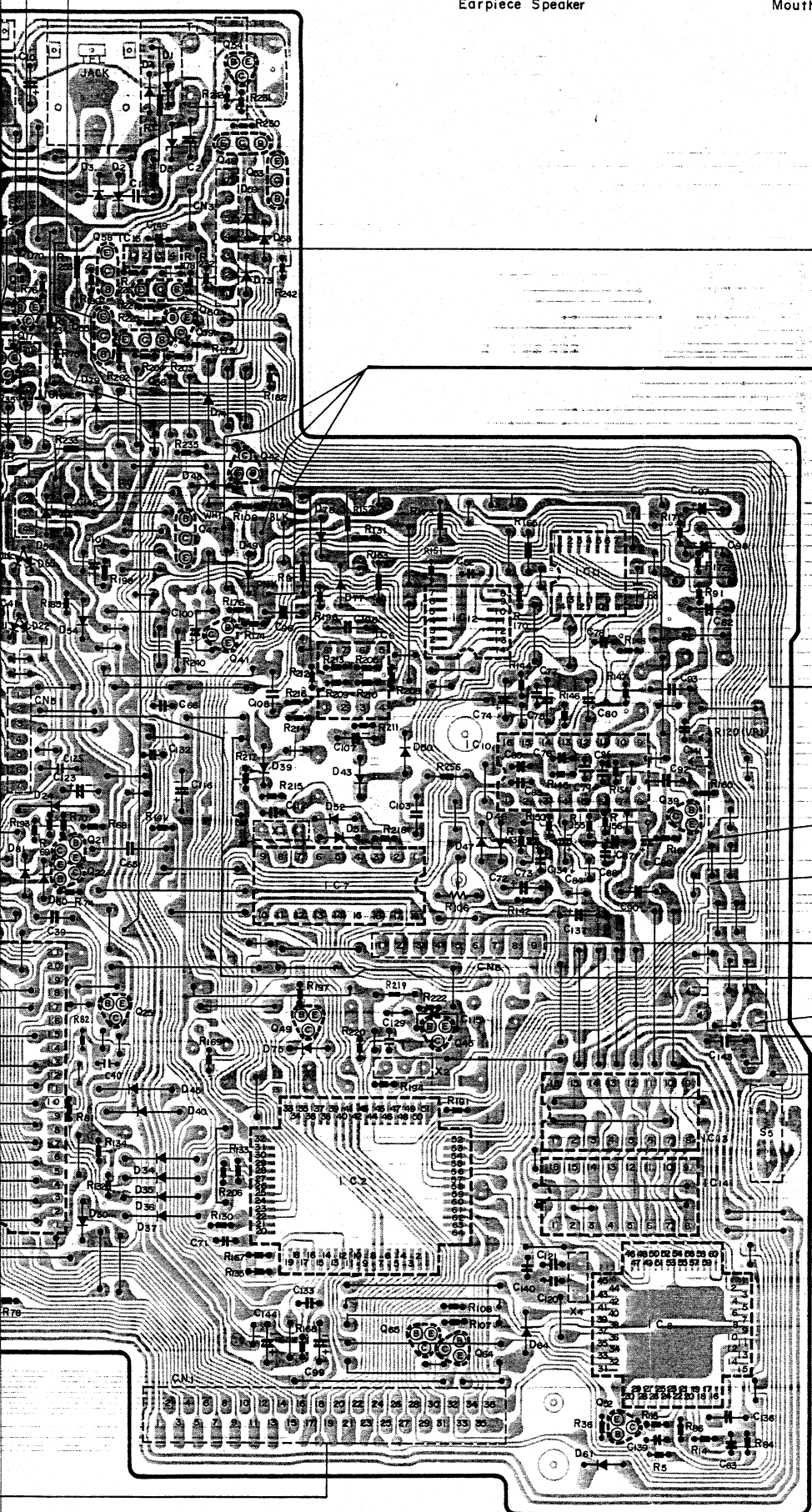
CIRCUIT BOARD AND WIRING CO
(Component View)



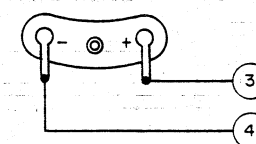
(Component View)

8 9 10 11 12 13 14 15 16

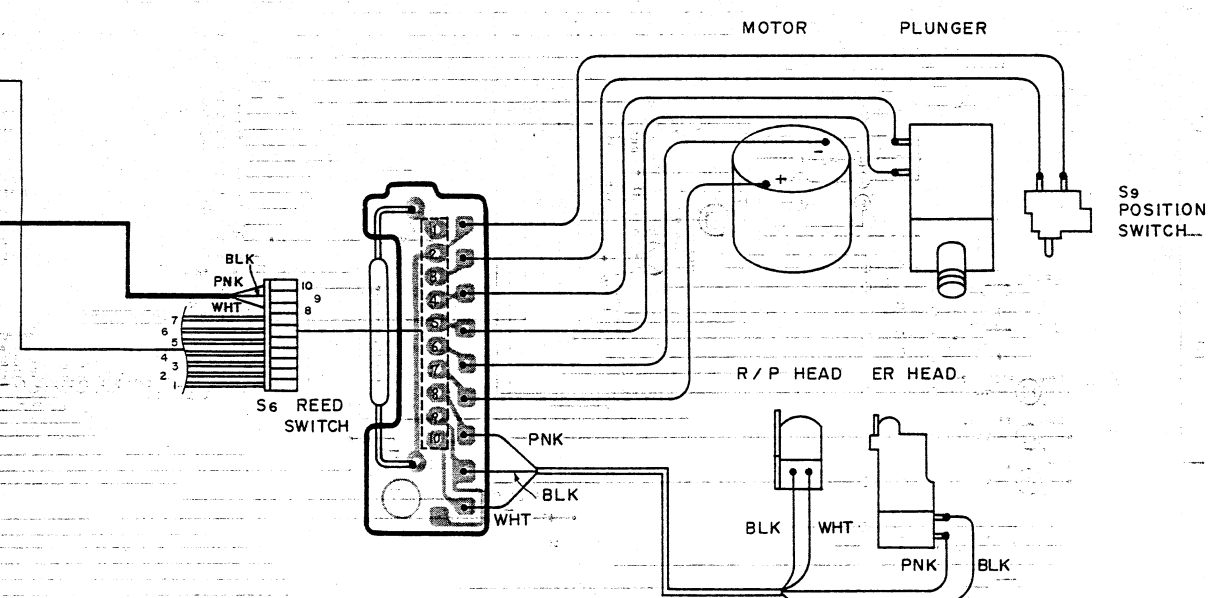
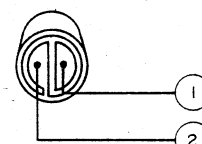
BATTERY 6V



6.5cm (2.6") 8Ω
PM DYNAMIC SPEAKER

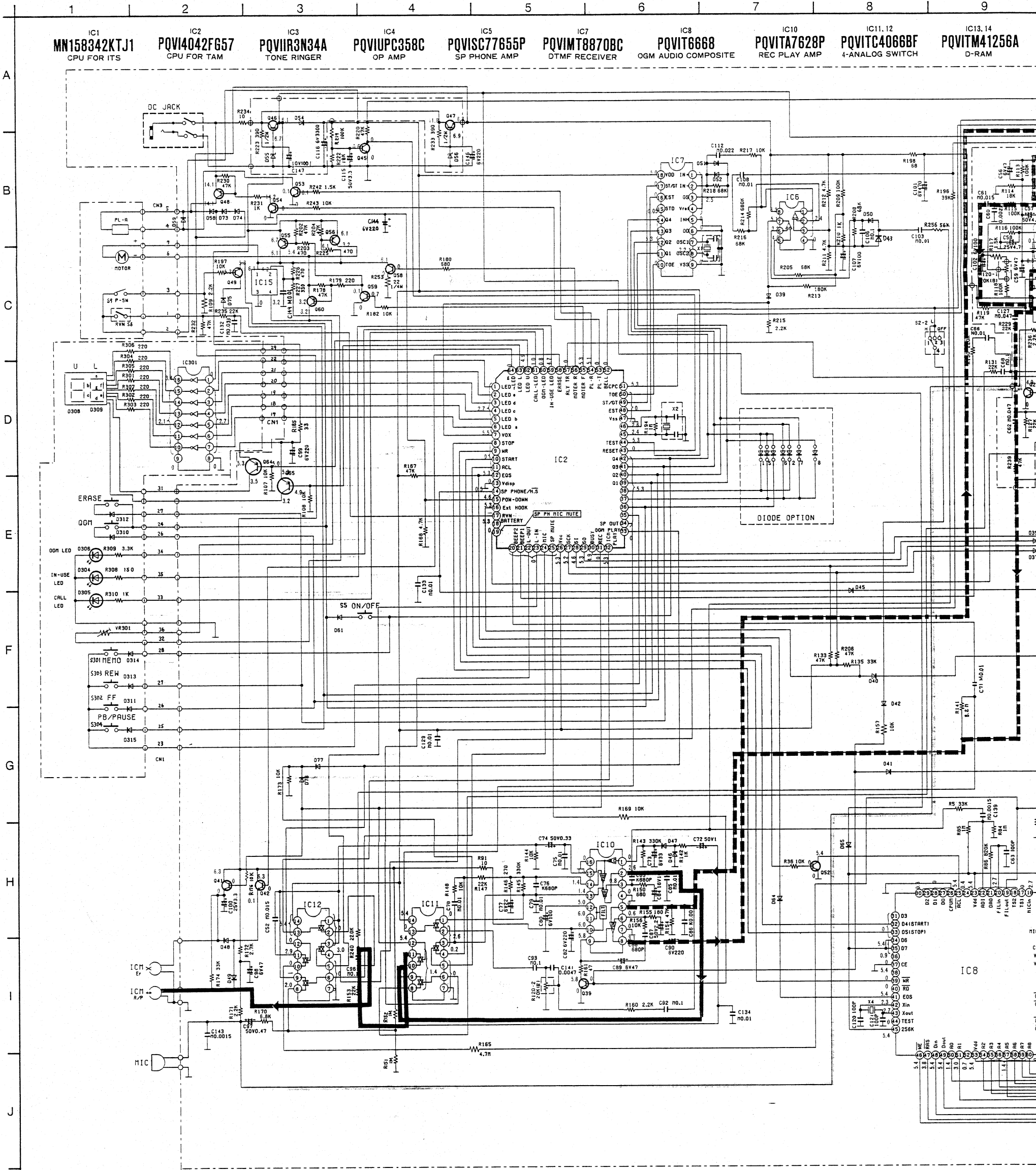


MICROPHONE



PQWP1T2622MB

SCHEMATIC DIA

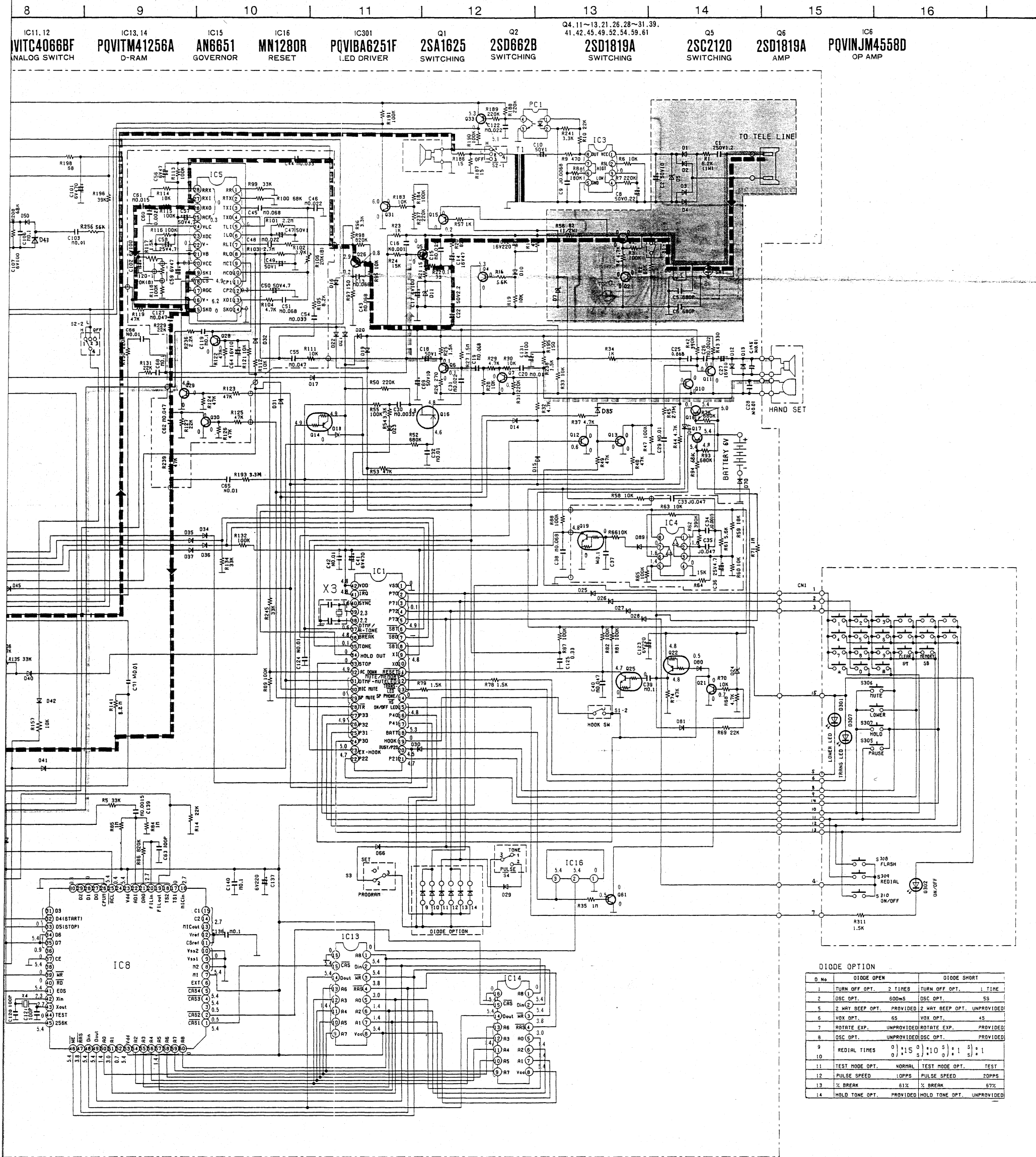


Notes:

1. S1: Hook switch in "On-Hook" position.
2. S2: Ring switch in "HIGH" position.
3. S3: Memory switch in "PROGRAM" position.
4. S4: Tone/Pulse switch in "TONE" position.
5. S5: Answer system On/Off switch.
6. S6: Reed switch.
7. S7: Clear switch.
8. S8: Memory switch.
9. S9: Position switch.
10. S301: Memo switch.
11. S302: Fast Forward switch.
12. S303: Rewind switch.
13. S304: Playback/Pause switch.
14. S305: Pause switch.
15. S306: Mute switch.
16. S307: Hold switch.
17. S308: Flash switch.
18. S309: Redial switch.
19. S310: Speakerphone switch.
20. DC voltage measurement are taken with electronic voltmeter from negative line. (ICM Playback Position)

The shaded areas are special electrical components. When specified, they are shaded.

SCHEMATIC DIAGRAM



EXPLODED VIEW (DECK)

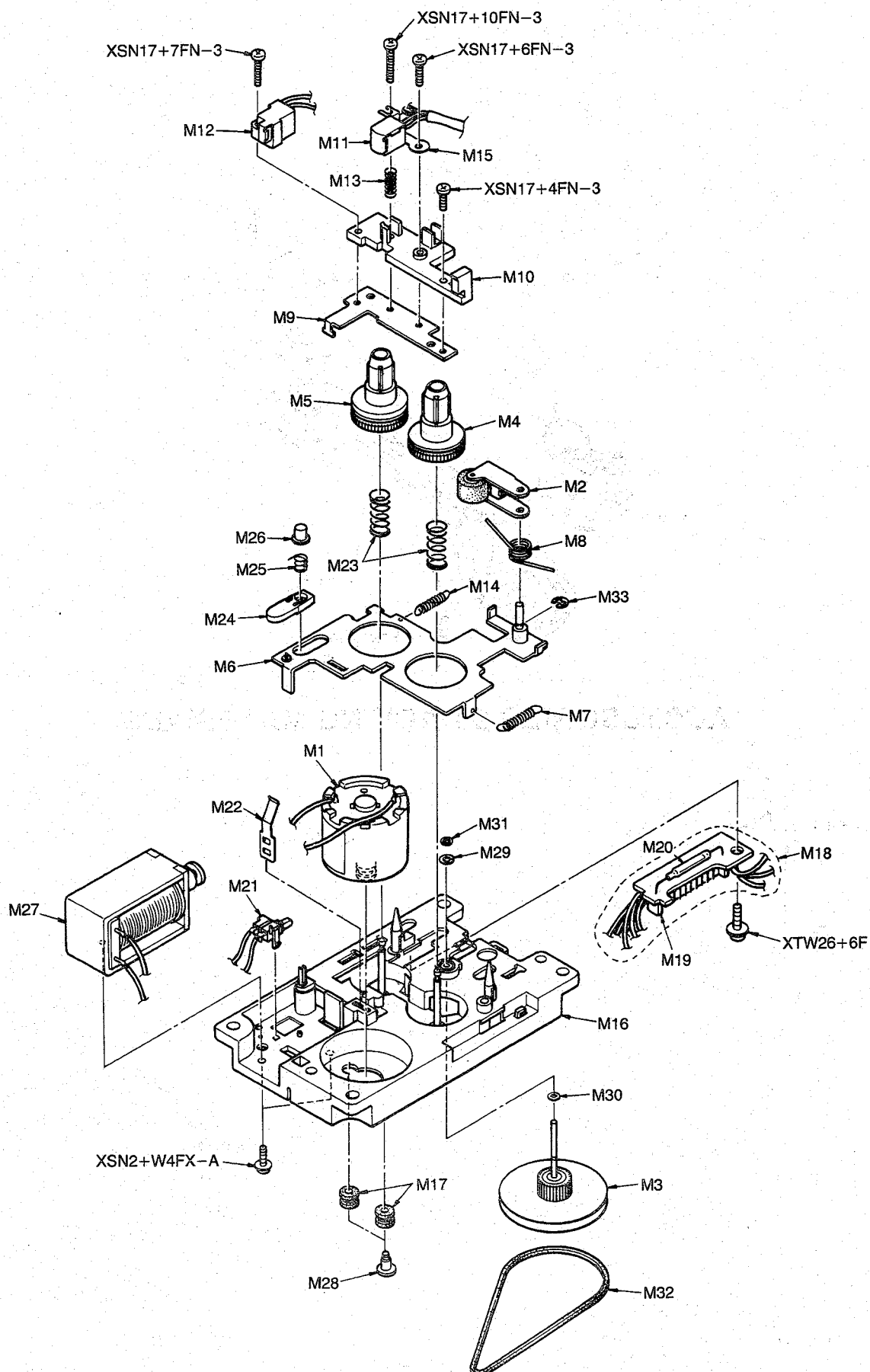
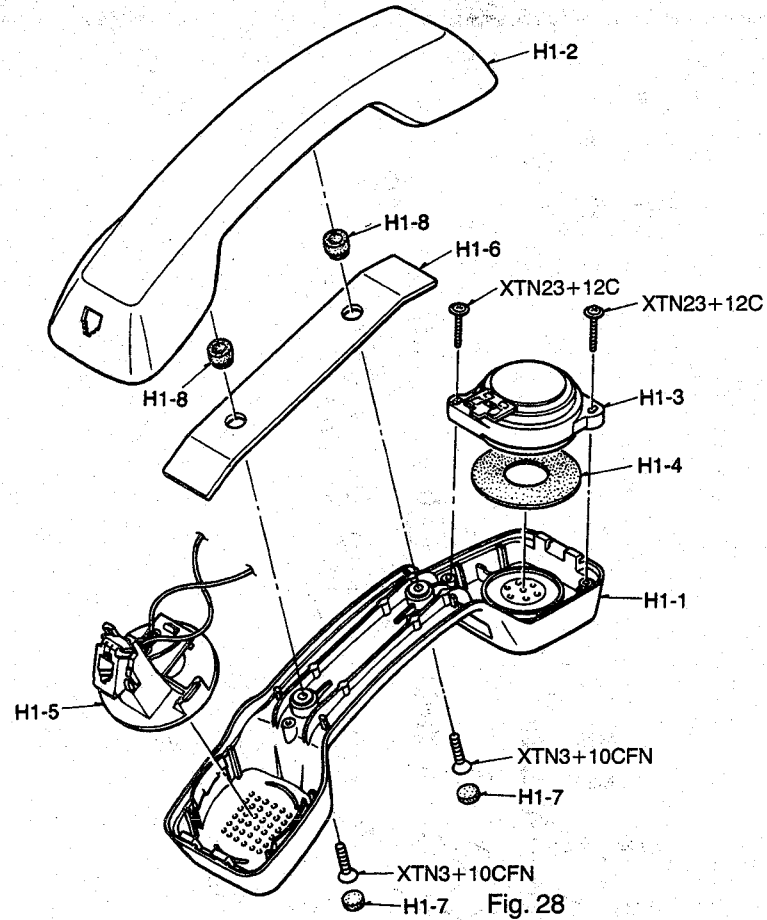
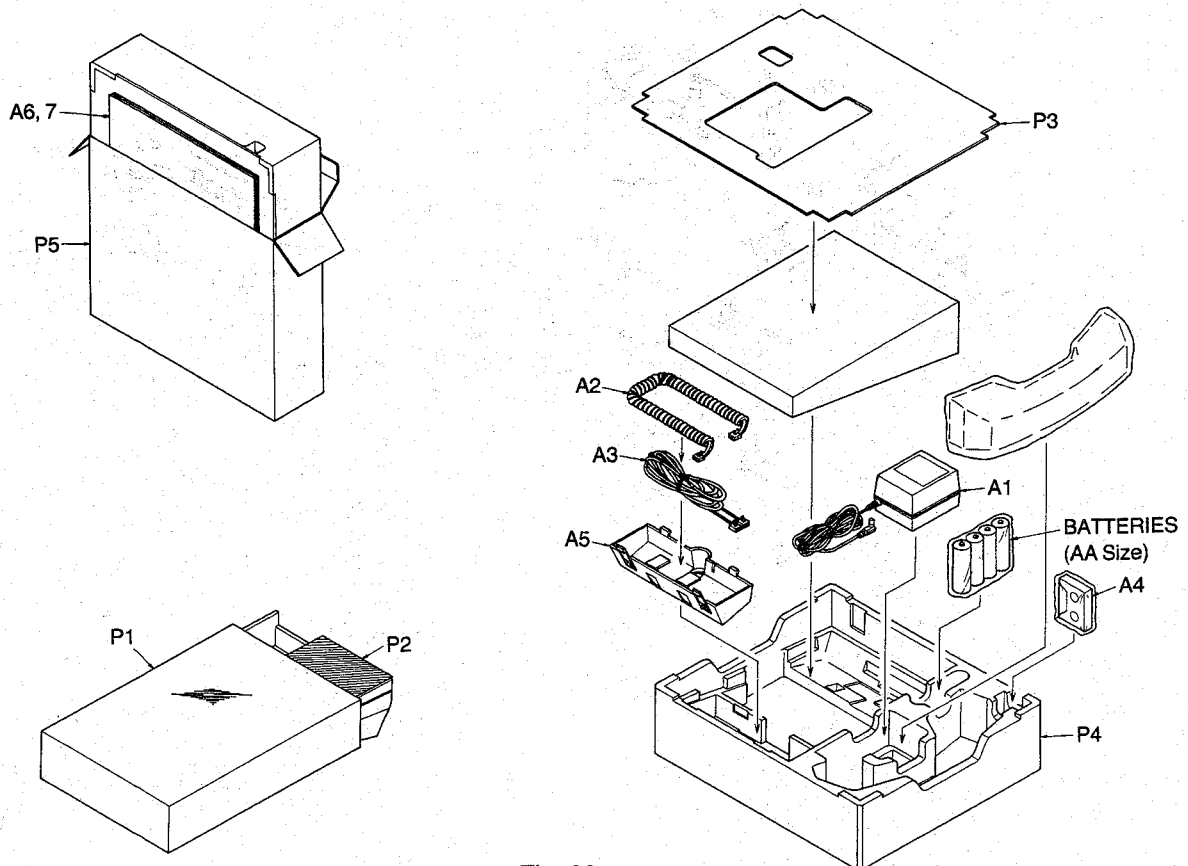


Fig. 27

HANDSET PARTS LOCATION



ACCESSORIES & PACKING MATERIALS



REPLACEMENT PARTS LIST

Notes:

Model KX-T2622

- Important safety notice.
Components identified by the Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
- The S mark indicates service standard parts and may differ from production parts.
- RESISTORS & CAPACITORS
Unless otherwise specified.
All resistors are in OHMS (Ω) $k=1000\Omega$, $M=1000k\Omega$
All capacitors are in MICRO FARADS (μF) $P=\mu\mu F$
*Type & Wattage of Resistor

ERC:Solid	ERX:Metal Film	ERW:Wirewound Resistor
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fusible Resistor
PQAR:Chip	ERO:Metal Film	PQRD:Carbon Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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*Type & Voltage of Capacitor

ECFD:Semi-Conductor	ECCD,ECKD,PQCBC: Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE: Polyester
ECUV,PQCUV:Chip	ECEA,ECSZ :Electrolytic
ECMS:Mica	ECQP :Polypropylene

Voltage

ECQ Type	ECQG Type	ECSZ Type	Others
1H: 50V	05: 50V	0F:3.15V	0J :6.3V 1V :35V
2A:100V	1:100V	1A:10V	1A : 10V 50,1H:50V
2E:250V	2:200V	1V:35V	1C : 16V 1J :63V
2H:500V		0J:6.3V	1E,25:25V 2A :100V

Ref.No.	Part No.	Part Name and Description	Pcs
MECHANICAL PARTS			
M1	PQFM9904Z	Motor Ass'y (with Pulley)	1
M2	PQFD9904Z	Pinch Roller Ass'y	1
M3	PQFF9904Z	Flywheel Ass'y	1
M4	PQFR9906Z	Takeup Reel Table Ass'y	1
M5	PQFR9907Z	Supply Reel Table Ass'y	1
M6	PQFD9906Z	Operation Plate	1
M7	PQFS69Z	Spring	1
M8	PQFS68Z	"	1
M9	PQFD57Z	Head Base Plate	1
M10	PQFW25Z	Head Base	1
M11	PQJH1M2Z	R/P Head	1
M12	PQJH6M2Z	Erase Head	1
M13	PQFS73Z	Spring	1
M14	PQFS70Z	"	1
M15	PQFJ1Z	Terminal	1
M16	PQFC9904Z	Mechanism Chassis Ass'y	1
M17	PQFI14Z	Rubber, Motor	2
M18	PQFZ9902Z	Reed Switch P.C. Board Ass'y	1
M19	PQJP10G38Z	Connector, 10Pin	1
M20	PQSE58Z	Reed Switch (S6)	1
M21	PQSH1A17Y	Head Position Switch (S9)	1
M22	PQFD64Z	Spring	1
M23	PQFS82Z	"	2
M24	PQFW32Z	Cam	1
M25	PQFS81Z	Spring	1
M26	PQFW33Z	Cap	1
M27	PQFP117Z	Plunger	1
M28	PQHD15Z	Screw	2
M29	PQFN34Z	Washer	1
M30	PQFN35Z	"	1
M31	PQFN33Z	"	1
M32	PQFB12Z	Belt	1
M33	XUC15FP-V	Stop Ring	1

Ref.No.	Part No.	Part Name and Description	Pcs
INTEGRATED CIRCUITS TRANSISTORS AND DIODES			
IC1	MN158342KTJ	IC	1
IC2	PQV14042FF95	"	1
IC3	PQV1IR3N34A	"	1
IC4,6	PQVIUPC358C	"	2
IC5	PQVISC77655P	"	1
IC7	PQVIMT8870BC	"	1
IC8	PQVIT6668	"	1
IC10	PQVITA7628P	"	1
IC11,12	PQVITC4066BF	"	2
IC13,14	PQWIT2622M	IC Assembly	1
IC15	AN6651	IC	1
IC16	MN1280R	"	1
IC301	PQVIBA6251F	"	1
Q1	2SA1400	Transistor(Si)	1 Δ
Q2	2SD662B	"	1 Δ
Q4,6,9,11-13,21,23,26,28-31,39-43,45,49,52,54,59,61	2SD1819A	"	24
Q62	DTC144A	"	1
Q5	2SC2120	"	1
Q7,10	2SD1328	"	2
Q14,22,36	UN5113	"	3
Q15,17,18,33,64,65	2SB1218A	"	6
Q16	2SK117	"	1
Q19,25	UN5213	"	2
Q46,47	2SD1266	"	2
Q48,55,56,60	2SB909M	"	4
Q53	2SD1225M	"	1
Q58	2SC1652	"	1
D1-4,8,-10,12,13,15,17-20,23,25-32,34-37,40,43,46-52,54,58,59,61,62,64-66,73-75,77,78,80,81,87-89,310-315	1SS131	Diode(Si)	59 Δ
D5	MA4300	"	1 Δ
D6	PQVDS1YB40F1	"	1 Δ
D7	MA7180	"	1 Δ
D11	MA7051	"	1
D14,16,21,22,33,39,42,45,	1S1588	"	8
D24	PQVDHZ2CLL02	"	1
D41,70	MA700	"	2
D53	PQVDMTZ4R7	"	1
D55,56	PQVDMTZ6R8	"	2
D301,302,306	PQVDSLPI181B	"	3
D304	PQVDSLPI251B	"	1
D305	PQVDSLPI151B	"	1
D307	LN222RPH	"	1

Ref.No.	Part No.	Part Name and Description	Pcs
D308, 309	PQVDA301	Diode(Si)	2
SWITCHES			
S1	PQSH1B12Z	Switch, Hook	1 Δ
S2	PQSS3B04Y	" , Ring	1
S3,4	PQSS2A06W	" , Memory, Tone/Pulse	2
S5	PQSH1A09Z	" , Answer System	1
S301, 302,303	PQSH1A30Z	" , Memo, Rewind, Fast Forward	3
JACKS			
J1	PQJJ1B3Z	Jack, DC IN	1
J2	PQJJ1TA9Y	" , Telephone Jack	1 Δ
J3	PQJJ1TB10Z	" , Handset	1
TRANSFORMER			
T1	PQLT2D3A	Transmission Transformer	1
VARIABLE RESISTORS			
R106	PQNB3A00B24M	Semi-Fixed Resistor, 20k Ω (B)	1
R120	PQVAM0A14B24	Volume Control, 20k Ω (B)	1
VR301	EVNK4AA00B13	Semi-Fixed Resistor, 1k Ω (B)	1
OTHERS			
X1	PQVBFC3584A1	Ceramic Oscillator	1
X2	PQVBFC4004A3	"	1
X3	PQVBFC3584A2	"	1
X4	PQVBKBR655B	"	1
SA1	PQVDSAE350	Surge Absorber	1 Δ
PC1	PQVIJL5151DA	Photo Coupler	1
CABINET PARTS			
K1	PQYMT2622M	Upper Cabinet Assembly	1
K1-1	PQBCX28Z	Button, Memo, Rewind, F/F	1
K2	PQYFT2622M	Lower Cabinet Assembly	1
K2-1	RHG1028Z	Rubber, Leg	2
K2-2	RJC314Z	Battery Terminal, (+) Side	4
K2-3	RJC736Z	" , (-) Side	4
K3	PQYQT2622M	Cassette Lid Assembly	1
K4	PQBCX31Z	Button, Key Station	1
K5	PQBC131Z	" , Answer System	1
		On/Off	
K6	PQBC133Y	" , Playback/Pause	1
K7	PQBD71Z	Knob, Volume Control	1
K8	PQHP532X	Telephone Card	1
K9	PQHP560Y	"	1
K10	PQHR576Z	Transparent Cover	1
K11	PQHR9163Z	"	1
K12	PQKE32X2	Handset Holder	1
K13	PQKK34Z0	Battery Cover	1
K14	PQUS65Z	Spring, Handset Holder	1

Ref.No.	Part No.	Part Name and Description	Pcs		
ELECTRICAL PARTS					
E1	RJM142Z	Microphone	1		
E2	PQH503Z	Rubber, Microphone	1		
E3	PQUL49Z	Bracket, Microphone	1		
E4	PQAS65P10Z	Speaker, 6.5cm(2.6")8Ω	1		
E5	PQJE51Z	Flat Cable	1		
E6	PQJS36X31Z	Connector, 36Pin	1		
E7	PQJS10L30Z	" , 10Pin	1		
E8	PQJS36X30Z	" , 36Pin	1		
E9	PQHR440Z	LED Spacer	4		
E10	PQSE62Z	Button, 12Key	1		
E11	PQSE63Z2	" , 2Key	1		
E12	XWG3F13	Washer	1		
HANDSET PARTS					
H1	PQJX2PM201X	Handset Assembly	1		
H1-1	PQKM36L	Lower Cabinet	1		
H1-2	PQKF34X	Upper Cabinet	1		
H1-3	PQJE47Z	Earpiece Speaker	1		
H1-4	PQHR9101Z	Cushion	1		
H1-5	PQJM110Z	Mouthpiece Microphone	1		
H1-6	PQUL59Z	Weight	1		
H1-7	PQH417Z	Rubber Cap	2		
H1-8	PQH412Z	Rubber Spacer	2		
Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS					
R1	PQRD1TJ622	6.2k Δ	R40	PQ4R10XJ224	220k
R2	PQ4R10XJ683	68k Δ	R41	PQ4R10XJ154	150k
R3	PQ4R10XJ104	100k Δ	R42	PQ4R10XJ224	220k
R4	PQ4R10XJ472	4.7k Δ	R43	ERD16TJ331	330
R5	PQ4R10XJ333	33k	R44	ERD16TJ472	4.7k
R6	PQ4R10XJ103	10k	R45	ERD16TJ334	330k
R7	PQ4R10XJ224	220k	R46	PQ4R10XJ105	1M
R8	PQ4R10XJ184	180k	R47	PQ4R10XJ104	100k
R9	PQ4R10XJ471	470	R48	PQ4R10XJ473	47k
R10	PQ4R10XJ223	22k	R49	PQ4R10XJ473	47k
			R50	PQ4R10XJ224	220k
			R52	ERD16TJ684	680k
R14	PQ4R10XJ223	22k	R53	ERD16TJ473	47k Δ
R15	PQ4R10XJ223	22k	R54	PQ4R10XJ332	3.3k
R16	PQ4R10XJ562	5.6k	R55	PQ4R10XJ104	100k
R17	PQ4R10XJ392	3.9k	R56	ERDS1TJ470	47
R18	PQ4R10XJ472	4.7k	R57	PQ4R10XJ102	1k
R19	PQ4R10XJ331	330	R58	PQ4R10XJ103	10k
R20	PQ4R10XJ821	820	R59	PQ4R10XJ183	18k
R21	ERD16TJ150	15	R60	PQ4R10XJ103	10k
R22	PQ4R10XJ390	39	R61	ERD16TJ562	5.6k
R23	PQ4R10XJ102	1k	R62	PQ4R10XJ394	390k
R24	PQ4R10XJ153	15k	R63	PQ4R10XJ103	10k
R25	PQ4R10XJ152	1.5k	R64	PQ4R10XJ153	15k
R26	PQ4R10XJ271	270	R65	PQ4R10XJ104	100k
R27	PQ4R10XJ155	1.5M	R66	PQ4R10XJ103	10k
R28	PQ4R10XJ103	10k			
R29	PQ4R10XJ472	4.7k	R68	PQ4R10XJ472	4.7k
R30	PQ4R10XJ103	10k	R69	PQ4R10XJ223	22k
R31	PQ4R10XJ224	220k	R70	PQ4R10XJ103	10k
R32	PQ4R10XJ472	4.7k	R71	PQ4R10XJ105	1M
R33	ERD10TLJ103	10k	R72	PQ4R10XJ105	1M
R34	PQ4R10XJ102	1k			
R35	PQ4R10XJ105	1M	R74	PQ4R10XJ473	47k
R36	PQ4R10XJ103	10k			
R37	PQ4R10XJ472	4.7k	R76	PQ4R10XJ684	680k
R38	PQ4R10XJ224	220k			
R39	PQ4R10XJ471	470	R78	PQ4R10XJ152	1.5k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS						RESISTORS					
R79	PQ4R10XJ152	1.5k	R150	PQ4R10XJ681	680	R221	PQ4R10XJ472	4.7k	R242	PQ4R10XJ152	1.5k
R81	PQ4R10XJ104	100k	R151	PQ4R10XJ105	1M	R222	PQ4R10XJ102	1k	R243	PQ4R10XJ103	10k
R82	PQ4R10XJ104	100k	R152	ERD25TJ223	22k	R223	ERDS1TJ391	390	R245	ERD16TJ333	33k
R84	PQ4R10XJ105	1M	R154	PQ4R10XJ473	47k	R225	PQ4R10XJ471	470			
R85	PQ4R10XJ105	1M	R155	PQ4R10XJ181	180	R226	PQ4R10XJ471	470			
R86	PQ4R10XJ824	820k	R156	PQ4R18XJ103	10k	R227	PQ4R10XJ471	470			
R87	PQ4R10XJ104	100k	R157	PQ4R10XJ103	10k						
R88	PQ4R10XJ104	100k	R158	PQ4R10XJ223	22k	R229	PQ4R10XJ223	22k			
R89	PQ4R10XJ104	100k				R230	PQ4R10XJ473	47k	R253	ERDS2TJ220	22
R90	PQ4R10XJ473	47k	R160	PQ4R10XJ222	2.2k	R231	PQ4R10XJ102	1k			
R91	ERD16TJ100	10	R161	ERD16TJ470	47	R232	PQ4R10XJ473	47k			
			R162	PQ4R10XJ473	47k	R233	ERDS1TJ391	390			
R93	PQ4R10XJ684	680k	R163	ERD16TJ104	100k	R234	PQ4R2AJ100	10	R301	ERD10TLJ221	220
R94	PQ4R10XJ104	100k	R164	PQ4R10XJ224	220k	R235	PQ4R10XJ223	22k	R302	ERD10TLJ221	220
R95	PQ4R10XJ103	10k	R165	ERD16TJ475	4.7M	R236	PQ4R10XJ222	2.2k	R303	ERD10TLJ221	220
R96	PQ4R10XJ332	3.3k				R237	PQ4R10XJ224	220k	R304	ERD10TLJ221	220
R97	PQ4R10XJ151	150	R167	PQ4R10XJ473	47k	R238	PQ4R10XJ152	1.5k	R305	ERD10TLJ221	220
R98	PQ4R10XJ824	820k	R168	PQ4R10XJ472	4.7k	R239	PQ4R10XJ473	47k	R306	ERD10TLJ221	220
R99	PQ4R10XJ333	33k	R169	PQ4R10XJ103	10k	R240	PQ4R10XJ333	33k	R307	ERD10TLJ221	220
R100	PQ4R10XJ683	68k	R170	PQ4R10XJ682	6.8k	R241	PQ4R10XJ332	3.3k	R308	ERD10TLJ271	270
R101	PQ4R10XJ225	2.2M	R171	ERD16TJ222	2.2k				R309	ERD10TLJ332	3.3k
R102	PQ4R10XJ332	3.3k	R172	PQ4R10XJ272	2.7k				R310	ERD10TLJ681	680
R103	PQ4R10XJ275	2.7M	R173	PQ4R10XJ103	10k				R311	ERD10TLJ152	1.5k
R104	PQ4R10XJ472	4.7k	R174	PQ4R10XJ333	33k						
R105	PQ4R10XJ822	8.2k	R175	PQ4R10XJ271	270						
			R176	ERD16TJ103	10k						
R107	PQ4R10XJ103	10k	R177	PQ4R10XJ103	10k						
R108	PQ4R10XJ103	10k	R178	PQ4R10XJ473	47k						
R109	PQ4R10XJ222	2.2k	R179	PQ4R10XJ221	220						
			R180	PQ4R10XJ681	680						
R111	PQ4R10XJ103	10k	R182	PQ4R10XJ103	10k						
R112	PQ4R10XJ103	10k	R183	PQ4R10XJ103	10k						
R113	PQ4R10XJ104	100k	R184	PQ4R10XJ104	100k						
R114	PQ4R10XJ183	18k									
R115	PQ4R10XJ104	100k	R186	PQ4R10XJ150	15						
R116	PQ4R10XJ104	100k	R187	PQ4R10XJ150	15						
R117	PQ4R10XJ152	1.5k	R188	PQ4R10XJ224	220k						
R118	ERD16TJ104	100k	R189	PQ4R10XJ224	220k						
R119	PQ4R10XJ473	47k	R190	PQ4R10XJ104	100k						
			R191	PQ4R10XJ104	100k						
R121	PQ4R10XJ103	10k	R192	PQ4R10XJ103	10k						
R122	PQ4R10XJ473	47k	R193	PQ4R10XJ225	2.2M						
R123	PQ4R10XJ473	47k	R194	PQ4R10XJ105	1M						
R124	PQ4R10XJ473	47k	R195	PQ4R10XJ151	150						
R125	PQ4R10XJ473	47k	R196	ERD16TJ393	39k						
R126	PQ4R10XJ473	47k	R197	PQ4R10XJ103	10k						
R127	PQ4R10XJ223	22k	R198	ERD16TJ680	68						
			R199	PQ4R10XJ473	47k						
R130	PQ4R10XJ224	220k	R200	PQ4R10XJ334	330k						
R131	ERD16TJ223	22k	R201	PQ4R10XJ152	1.5k						
R132	PQ4R10XJ104	100k	R202	PQ4R10XJ473	47k						
R133	PQ4R10XJ473	47k	R203	PQ4R10XJ471	470						
R134	PQ4R10XJ333	33k	R204	PQ4R10XJ473	47k						
R135	PQ4R10XJ333	33k	R205	PQ4R10XJ101	100						
			R206	PQ4R10XJ473	47k						
			R207	PQ4R10XJ103	10k						
			R208	PQ4R10XJ154	150k						
			R209	PQ4R10XJ104	100k						
			R210	PQ4R10XJ333	33k						
R140	PQ4R10XJ473	47k	R211	PQ4R10XJ472	4.7k						
R141	PQ4R10XJ105	1M	R212	PQ4R10XJ472	4.7k						
R142	PQ4R10XJ102	1k	R213	ERD25TJ103	10k						
R143	PQ4R10XJ334	330k	R214	PQ4R10XJ334	330k						
R144	PQ4R10XJ103	10k	R215	PQ4R10XJ222	2.2k						
R145	PQ4R10XJ334	330k	R216	PQ4R10XJ103	10k						
R146	PQ4R10XJ271	270	R217	PQ4R10XJ103	10k						
R147	PQ4R10XJ223	22k	R218	PQ4R10XJ683	68k						
R148	PQ4R10XJ333	33k	R219	ERD16TJ101	100						
R149	PQ4R10XJ331	330	R220	PQ4R10XJ473	47k						

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
C85	PQCUV1H103MD	0.01	C112	PQCUV1H223MD	0.022
C86	PQCUV1H102MD	0.001	C113	ECEA0JU331	330
C87	ECEA1HU2R2	2.2			
C88	PQCUV1H681KC	680P	C115	ECEA1HKS3R3	3.3
C89	ECEA1EU470	47	C116	EECW0HS473Z	0.047F
C90	ECEA1AU221	220	C117	ECEA0JK221	220
C91	ECEA1HU3R3	3.3			
C92	ECUV1E104MD	0.1	C119	ECUV1E104MD	0.1
C93	ECUV1E104MD	0.1	C120	PQCUV1H101JC	100P
C94	ECEA1HKS3R3	0.33	C121	PQCUV1H101JC	100P
C95	PQCUV1H103MD	0.01	C122	PQCUV1H223MD	0.022
C96	ECUV1E104MD	0.1	C123	ECEA1AU221	220
C97	ECEA1HUR47	0.47	C124	PQCUV1H103MD	0.01
C98	ECEA1EU470	47	C125	ECEA1HKS3R3	0.33
C99	ECEA1CK101	100			
C100	ECEA1HU3R3	3.3	C127	PQCUV1E473MD	0.047
C101	ECEA0JU471	470			
C102	ECEA1CK101	100	C129	PQCUV1H103MD	0.01
C103	ECUV1E104MD	0.1			
C104	PQCUV1H102MD	0.001	C131	ECEA1CK101	100
C105	ECEA1HKS3R2	0.22	C132	PQCUV1H103MD	0.01
C106	ECUV1E104MD	0.1	C133	PQCUV1H103MD	0.01
C107	ECEA1AU101	100	C134	PQCUV1H103MD	0.01
C108	ECQM1H103JV	0.01			
C109	ECQM1H102JV	0.001	C136	ECUV1E104MD	0.1
C110	ECQM1H103JV	0.01	C137	ECEA1AU221	220
			C139	PQCUV1H152MD	0.0015
			C140	ECFD1C104MD	0.1
			C142	PQCBC1C472MX	0.0047
			C143	ECKD1H152KB	0.0015
			C144	ECEA1AU221	220
Ref. No.	Part No.	Part Name and Description			Pcs
ACCESSORIES					
A1	KX-A11	AC Adaptor			1 Δ
A2	PQJA30V	Curl Cord			1
A3	PQJA59Y	Telephone Cord			1
A4	RT-N60-JT1P	Micro Cassette(MC-60)			1
A5	PQKL13Z	Wall Mount Bracket			1
A6	PQX1301Z	Dial Card			1
A7	PQX5334Z	Instruction Book			1
PACKING MATERIALS					
P1	XZB26X40A01	Polyethylene Cover			1
P2	PQPH70Z	Soft Cover			1
P3	PQPN657Z	Pad			1
P4	PQPN903Z	/			1
P5	PQPK427Z	Gift Box			1

OPERATIONS

Automatic Dialing

Example: Home Use Phone number 123-4567 into the upper station
Office Use Line access number 9 and telephone number 123-4567 into the lower station

Storage

Be sure the handset is on the cradle and the Speakerphone button is off.

- 1 Set to "PROGRAM".
   SET PROGRAM
- 2 Home Use (into the upper)
                                 

Recording Outgoing Message

- 1  until the OGM Indicator lights.
 - 2 Speak clearly and loudly into the .
 - 3 When finished, .
 - 4 Plays back the OGM automatically. (Confirming)
- OGM Playing**
- Push  quickly.
- The OGM Indicator will not light.
 - The unit will automatically change to the Answer mode after 7 seconds from the OGM playback.

Prior to Leaving

- When the telephone rings, the unit will play the OGM, then it will record the caller's message.

One Touch Operation:

The unit will automatically set to the Answer mode when the Answer System On/Off Switch is pushed on. And the Answer Indicator will light.

When you record messages from the beginning of the tape:



Message Memo

To record a message to be heard by someone using remote.

- 1  until a beep sound is heard.
- 2 Speak into the .
- 3 When finished, .

After Returning Home

- Push .
- The unit will rewind and play back, then stop after the last message.
 - To stop the tape temporarily, push the Pause button.
 - To restart, push the button again.
 - To rewind the tape, .
 - To fast forward the tape, .
 - The unit will reset back to the answer mode after 7 seconds.
 - If you do not want to set the answer mode, push the Power Switch to off.

Monitoring the Incoming calls

While an incoming message is being recorded.

Adjust the Volume Control.

To speak to the caller directly

- 1 Lift the handset  and start to talk.
 - 2 When finished, hang up the .
- The tape will stop moving.

Quick Erasure

Wait until the unit plays back and the tape stops.

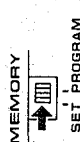
- Push .
- until a beep sound is heard.
 - The messages will be erased by rewinding, and stop automatically when the erasure is completed or manually whenever you push the Erase button.

Tone Remote Control System

How to set remote code

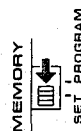
Example: 86
Be sure the handset is on the cradle and the Speakerphone button is off.

- 1 Set to "PROGRAM".



- 2  # * 8 6  MEMORY
- Initial setting Remote code (Selectable)

- 3 Return to "SET".



- Remote code (Code No.) is two digits.
- The remote code is preset to "11".
- You can set the code from "00" to "99".

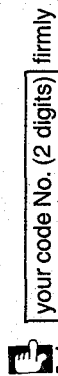
Recording 2-Way Conversation

- 1 While having a conversation,  until the In Use Indicator lights.
 - 2 When you finish recording, .
- The unit will produce a beep every 15 seconds.

Tone remote control

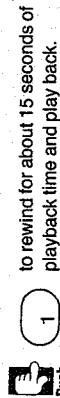
- 1 Dial the telephone number with a tone telephone only.

- 2 When the OGM starts,

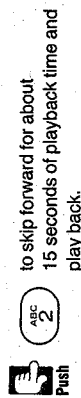


- A beep will sound to tell the number of recorded messages.
- The unit will rewind the ICM tape and play back.

- Back Space



- Skip Forward



- After the last message is played back, 3 beeps will sound.

- 3 Hang up the .

- Next message will be recorded after the last message.

To record the ICM from beginning of the tape, push the  button and hang up the handset.

Service Manual

Telephone Equipment

KX-T2622

Supplement-1

AUTO-LOGIC™

EASA-PHONE®



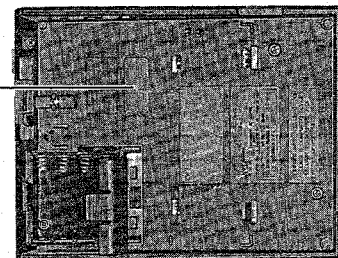
Integrated Telephone System

• Please use this manual together with the service manual for model No. KX-T2622, order No. KM48611397C1.

The model KX-T2622 has been changed the main P.C.Board and CPU (IC2).

- Change of P.C.Board
Suffix A, B → Refer to original service manual
Suffix C~F → Refer to this manual (Supplement-1)
- Change of CPU (IC2)
PQVI4042FF95 → PQVI4042FG57
New parts may be used in the unit of suffix A~F.
Use original parts until exhausted, then stock new parts.

7BBHC19641
↑
Suffix



CHANGES

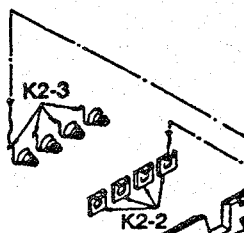
■ CPU DATA

IC2 PQVI4042FF95
(Model KX-T2622)

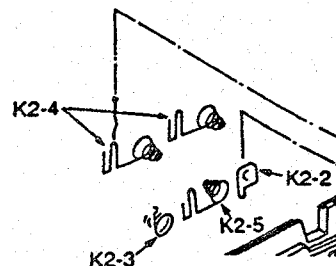


IC2 PQVI4042FG57
(The contents of CPU data does not change.)
(Model KX-T2622 Supplement-1)

■ CABINET AND ELECTRICAL PARTS



(Model KX-T2622)



(Model KX-T2622 Supplement-1)

Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii Inc.
91-238 Kauh St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 De Infanteria, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

REPLACEMENT PARTS LIST

Model KX-T2622

Notes:

- Important safety notice.
Components identified by the  mark special characteristics important for safety.
when replacing any of these components, use only manufacture's specified parts.
- The S mark indicates service standard parts and may differ from production parts.
- RESISTORS & CAPACITORS
Unless otherwise specified.
All resistors are in ohms (Ω) k=1000 Ω , M=1000k Ω
All capacitors are in MICRO FARADS (μ F) P= μ F
*Type & Wattage of Resistor
Type

ERC:Solid	ERX:Metal Film	ERDS,PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fusible Resistor
RRD:Chip	ERO:Metal Film	PQ4R:Chip

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
------------	------------	---------	------	------	------

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,PQCBC,ECBC : Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE : Polyester
PQCBX,ECUV,PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECMS:Mica	EECW : Electric Double Layer

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs
MECHANICAL PARTS			
M1	PQFM9904Z	Motor Ass'y (with Pulley)	1
M2	PQFD9904Z	Pinch Roller Ass'y	1
M3	PQFF9904Y	Flywheel Ass'y	1
M4	PQFR9906Z	Takeup Reel Table Ass'y	1
M6	PQFD9906Z	Operation Plate	1
M7	PQFS69Z	Spring	1
M8	PQFS68Z	Spring	1
M9	PQFD57Z	 Head Base Plate	1
M10	PQFW25Z	Head Base	1
M11	PQJH1M2Z	R/P Head	1
M12	PQJH6M2Z	Erase Head	1
M13	PQFS73Z	Spring	1
M14	PQFS70Z	Spring	1
M15	PQFJ1Z	Terminal	1
M16	PQFC9904X	Mechanism Chassis Ass'y	1
M17	PQFI14Z	Rubber, Motor	2
M19	PQJP10G38Z	Connector, 10Pin	1
M21	PQSH1A17Y	Head Position Switch (S9)	1
M22	PQFD64Z	Spring	1
M23	PQFS82Z	Spring	2
M24	PQFW32Z	Cam	1
M25	PQFS81Z	Spring	1
M26	PQFW33Z	Cap	1
M27	PQFP117Z	Plunger	1
M28	PQHD15Z	Screw	2
M29	PQFN34Z	Washer	1
M30	PQFN35Z	Washer	1
M31	PQFN33Z	Washer	1
M32	PQFB12Z	Belt	1
M33	XUC15FP-V	Stop Ring	1
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES			
IC1	MN158342KTJ1	IC	1
IC2	PQVI4042FG57	IC	1
IC3	PQVIIR3N34A	IC	1

Ref. No.	Part No.	Part Name & Description	Pcs
IC4,6	PQVIUPC358C	IC	2
IC5	PQVISC77655P	IC	1
IC7	PQVIMT8870BC	IC	1
IC8	PQVIT6668	IC	1
IC10	PQVITA7628P	IC	1
IC11,12	PQVITC4066BF	IC	2
IC13,14	PQVITM41256A	IC	2
IC15	AN6651	IC	1
IC16	MN1280R	IC	1
IC301	PQVIBA6251F	IC	1
Q1	2SA1400	Transistor (Si)	1
Q2	2SD662B	Transistor (Si)	1
Q4,6,9,11-13,21,23,26,28-31,39,41-43,45,49,52,54,59,61	2SD1819A	Transistor (Si)	24
Q5	2SC2120	Transistor (Si)	1
Q7,10	2SD1328	Transistor (Si)	2
Q14,22	UN5113	Transistor (Si)	3
Q15,17	2SB1218A	Transistor (Si)	6
Q16	2SK117	Transistor (Si)	1
Q19,25	UN5213	Transistor (Si)	3
Q46,47	2SD1266	Transistor (Si)	2
Q48,55,56,60	2SB909M	Transistor (Si)	4
Q53	2SD1225M	Transistor (Si)	1
Q58	2SC1652	Transistor (Si)	1
D1-4,8-10,12,13,14,17,18,23,25-30,32,42,43,46-52,54,58,59,61,62,64,66,73,75,77,78,80,81,84,87,89,310-315	1SS131	Diode (Si)	45
D5	MA4300	Diode (Si)	1
D6	PQVDS1YB40F1	Diode (Si)	1
D7	MA7180	Diode (Si)	1
D11	MA7051	Diode (Si)	1
D15,19,20,31,33-37,39,40,45,74,82,83'	1S2076	Diode (Si)	15
D24	PQVDHZ2CCL02	Diode (Si)	1
D41,70	MA700	Diode (Si)	2
D53	PQVDMTZ4R7	Diode (Si)	1
D55,56	PQVDMTZ6R8	Diode (Si)	2
D301,302,306	PQVDSL181B	LED	3
D304	PQVDSL251B	LED	1
D305	PQVDSL151B	LED	1
D307	LN222RPH	LED	1
D308,309	PQVDLA301YB	LED	2
D16,21,22,65	MA151WA	Diode (Si)	2

Ref. No.	Part No.	Part Name & Description	Pcs
SWITCHES			
S1	PQSH1B12Y	Switch, Hook	1
S2	PQSS3B04Y	Switch, Ring	1
S3,4	PQSS2A06W	Switch, Memory, Tone/Pulse	2
S5	EVQ-QBH08T	Switch, Answer System On/Off	1
S301, 302, 303	PQSH1A30Z	Switch, Memo, Rewind, Fast Forward	3
JACKS			
J1	PQJ1B3Z	Jack, DC IN	1
J2	PQJ1TA9Y	Jack, Telephone Line	1
J3	PQJ1TB10Z	Jack, Handset	1
TRANSFORMER			
T1	PQLT2D3A	Transmission Transformer	1
VARIABLE RESISTORS			
R106	PQNB3A00B24M	Semi-Fixed Resistor, 20k Ω (B)	1
R120	PQVAM0A14B24	Volume Control, 20k Ω (B)	1
VR301	EVNKA00B013	Semi-Fixed Resistor, 1k Ω (B)	1
OTHERS			
X1,3	PQVBFC3584A1	Ceramic Oscillator	2
X2	PQVBFC4004A3	Ceramic Oscillator	1
X4	PQVBKBR655B	Ceramic Oscillator	1
SA1	PQVDSAE350	Surge Absorber	1
PC1	PQVIJL5151DA	Photo Coupler	1
CABINET PARTS			
K1	PQYMT2622M	Upper Cabinet Ass'y	1
K1-1	PQBCX28Z	Button, Memo, Rewind, Fast Forward	1
K2	PQYFT2622MA	Lower Cabinet Ass'y	1 S
K2-1	RHG1028Z	Rubber, Leg	2
K2-2	RJC314A	Battery Terminal, (+) Side	1
K2-3	PQJC707Z	Battery Terminal, (-) Side	1
K2-4	PQJC922Z	Battery Terminal, (+)(-) Side	2
K2-5	PQJC923Z	Battery Terminal, (+)(-) Side	1
K3	PQYQT2622M	Cassette Lid Ass'y	1
K4	PQBCX31Z	Button, Key Station	1
K5	PQBC131Y	Button, Answer System On/Off	1
K6	PQBC133Y	Button, Playback/Pause	1
K7	PQBD71Z	Knob, Volume Control	1
K8	PQHP532V	Telephone Card	1
K9	PQHP560Z	Telephone Card	1
K10	PQHR576Z	Transparent Cover	1
K11	PQHR9163Z	Transparent Cover	1
K12	PQKE32X2	Handset Holder	1
K13	PQKK34Z0	Battery Cover	1
K14	PQUS65Z	Spring, Handset Holder	1
ELECTRICAL PARTS			
E1	RJM142Z	Microphone	1
E2	PQHG503Z	Rubber, Microphone	1
E3	PQUL49Z	Bracket, Microphone	1
E4	PQAS65P10Z	Speaker, 6.5cm(2.6")8 Ω	1
E5	PQJE51Z	Flat Cable	1
E6	PQJS36X31Z	Connector, 36Pin	1
E7	PQJS10L31Z	Connector, 10Pin	1
E8	PQJS36X30Z	Connector, 36Pin	1
E9	PQHR440Z	LED Spacer	4
E10	PQSE62Y	Button, 12Key	1
E11	PQSE63Z2	Button, 2Key	1
E12	XWG3F13	Washer	1
E13	PQJP9D58Z	Connector, 9Pin (Refer to Fig.1)	1
E14	PQJS9B30Z	Connector, 9Pin (Refer to Fig.1)	1

Ref. No.	Part No.	Part Name & Description	Pcs		
HANDSET PARTS					
H1	PQJX2PM201X	Handset Ass'y	1		
H1-1	PQKM36L	Lower Cabinet	1		
H1-2	PQKF34X	Upper Cabinet	1		
H1-3	PQJE47Z	Earpice Speaker	1		
H1-4	PQHR9101Z	Cushion	1		
H1-5	PQJM110Z	Mouthpiece Microphone	1		
H1-6	PQUL59Z	Weight	1		
H1-7	PQHG417Z	Rubber Cap	2		
H1-8	PQHG412Z	Rubber Spacer	2		
ACCESSORIES					
A1	KX-A11	AC Adaptor	1		
A2	PQJA30V	Curl Cord	1		
A3	PQJA59Y	Telephone Cord	1		
A4	RT-N60-JT1P	Micro Cassette (MC-60)	1		
A5	PQKL13Z	Wall Mount Bracket	1		
A6	PQOX1301Z	Dial Card	1		
A7	PQOX5334Z	Instruction Book	1		
PACKING MATERIALS					
P1	XZB26X40A01	Polyethylene Cover	1		
P2	PQPH70Z	Soft Cover	1		
P3	PQPN657Z	Pad	1		
P4	PQPN903Z	Pad	1		
P5	PQPK427Z	Gift Box	1		
Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS					
R1	PQRD1TJ622	6.2k	R44	ERD25TJ472	4.7k
R2	PQ4R10XJ683	68k	R45	PQ4R10XJ334	330k
R3	PQ4R10XJ104	100k	R46	PQ4R10XJ105	1M
R4	PQ4R10XJ472	4.7k	R47	PQ4R10XJ104	100k
R5	PQ4R10XJ333	33k	R48	PQ4R10XJ473	47k
R6	PQ4R10XJ103	10k	R49	PQ4R10XJ473	47k
R7	PQ4R10XJ224	220k	R50	PQ4R10XJ224	220k
R8	PQ4R10XJ184	180k	R52	PQ4R10XJ684	680k
R9	PQ4R10XJ471	470	R53	ERD16TJ473	47k
R10	PQ4R10XJ223	22k	R54	PQ4R10XJ332	3.3k
R14	PQ4R10XJ223	22k	R55	PQ4R10XJ104	100k
R15	PQ4R10XJ223	22k	R56	ERDS1TJ470	47
R16	PQ4R10XJ562	5.6k	R57	PQ4R10XJ102	1k
R17	PQ4R10XJ392	3.9k	R58	PQ4R10XJ103	10k
R18	PQ4R10XJ472	4.7k	R59	PQ4R10XJ183	18k
R19	PQ4R10XJ331	330	R60	PQ4R10XJ103	10k
R20	PQ4R10XJ821	820	R61	PQ4R10XJ562	5.6k
R21	PQ4R10XJ150	15	R62	PQ4R10XJ394	390k
R22	PQ4R10XJ390	39	R63	PQ4R10XJ103	10k
R23	PQ4R10XJ102	1k	R64	PQ4R10XJ153	15k
R24	PQ4R10XJ153	15k	R65	PQ4R10XJ104	100k
R25	PQ4R10XJ152	1.5k	R66	PQ4R10XJ103	10k
R26	PQ4R10XJ271	270	R68	PQ4R10XJ472	4.7k
R27	PQ4R10XJ155	1.5M	R69	PQ4R10XJ223	22k
R28	PQ4R10XJ103	10k	R70	PQ4R10XJ103	10k
R29	PQ4R10XJ472	4.7k	R71	PQ4R10XJ105	1M
R30	PQ4R10XJ103	10k	R72	ERD16TJ105	1M
R31	PQ4R10XJ224	220k	R74	PQ4R10XJ473	47k
R32	PQ4R10XJ472	4.7k	R76	PQ4R10XJ684	680k
R33	PQ4R10XJ103	10k	R78	PQ4R10XJ152	1.5k
R34	PQ4R10XJ102	1k	R79	PQ4R10XJ152	1.5k
R35	PQ4R10XJ105	1M	R81	PQ4R10XJ104	100k
R36	PQ4R10XJ103	10k	R82	PQ4R10XJ104	100k
R37	PQ4R10XJ472	4.7k	R84	PQ4R10XJ105	1M
R38	PQ4R10XJ224	220k	R85	PQ4R10XJ105	1M
R39	PQ4R10XJ471	470	R86	PQ4R10XJ824	820k
R40	PQ4R10XJ224	220k	R87	PQ4R10XJ104	100k
R41	PQ4R10XJ154	150k	R88	PQ4R10XJ104	100k
R42	PQ4R10XJ224	220k	R89	PQ4R10XJ104	100k
R43	PQ4R10XJ331	330	R90	ERD16TJ473	47k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R91	PQ4R10XJ100	10	R178	PQ4R10XJ473	47k
R93	PQ4R10XJ684	680k	R179	PQ4R10XJ221	220
R94	PQ4R10XJ104	100k	R180	PQ4R10XJ681	680
R95	PQ4R10XJ103	10k	R182	PQ4R10XJ103	10k
R96	PQ4R10XJ332	3.3k	R183	PQ4R10XJ103	10k
R97	PQ4R10XJ151	150	R184	PQ4R10XJ104	100k
R98	PQ4R10XJ824	820k	R185	PQ4R10XJ330	33
R99	PQ4R10XJ333	33k	R186	PQ4R10XJ150	15
R100	PQ4R10XJ683	68k	R187	PQ4R10XJ150	15
R101	PQ4R10XJ225	2.2M	R188	PQ4R10XJ224	220k
R102	PQ4R10XJ392	3.9k	R189	PQ4R10XJ224	220k
R103	PQ4R10XJ275	2.7M	R190	PQ4R10XJ104	100k
R104	PQ4R10XJ472	4.7k	R191	PQ4R10XJ104	100k
R105	PQ4R10XJ822	8.2k	R192	PQ4R10XJ103	10k
R107	PQ4R10XJ103	10k	R193	PQ4R10XJ335	3.3M
R108	PQ4R10XJ103	10k	R194	PQ4R10XJ105	1M
R109	PQ4R10XJ222	2.2k	R195	PQ4R10XJ151	150
R111	PQ4R10XJ103	10k	R196	PQ4R10XJ393	39k
R112	PQ4R10XJ103	10k	R197	PQ4R10XJ103	10k
R113	PQ4R10XJ104	100k	R198	PQ4R10XJ680	68
R114	PQ4R10XJ183	18k	R199	ERD16TJ473	47k
R115	PQ4R10XJ104	100k	R200	PQ4R10XJ334	330k
R116	PQ4R10XJ104	100k	R201	PQ4R10XJ152	1.5k
R117	PQ4R10XJ152	1.5k	R202	PQ4R10XJ473	47k
R118	ERD16TJ104	100k	R203	PQ4R10XJ471	470
R119	PQ4R10XJ473	47k	R204	PQ4R10XJ473	47k
R121	PQ4R10XJ103	10k	R205	PQ4R10XJ101	100
R122	PQ4R10XJ473	47k	R206	PQ4R10XJ473	47k
R123	PQ4R10XJ473	47k	R207	PQ4R10XJ103	0.01
R124	PQ4R10XJ473	47k	R208	PQ4R10XJ154	150k
R125	PQ4R10XJ473	47k	R209	PQ4R10XJ104	100k
R126	PQ4R10XJ473	47k	R210	PQ4R10XJ333	33k
R127	ERD16TJ223	22k	R211	PQ4R10XJ472	4.7k
R130	PQ4R10XJ224	220k	R212	PQ4R10XJ472	4.7k
R131	PQ4R10XJ223	22k	R213	PQ4R10XJ103	10k
R132	PQ4R10XJ104	100k	R214	PQ4R10XJ334	330k
R133	PQ4R10XJ473	47k	R215	PQ4R10XJ222	2.2k
R134	PQ4R10XJ333	33k	R216	PQ4R10XJ103	10k
R135	PQ4R10XJ333	33k	R217	PQ4R10XJ103	10k
R136	PQ4R10XJ103	10k	R218	PQ4R10XJ683	68k
R137	PQ4R10XJ472	4.7k	R219	ERD25TJ101	100
R140	PQ4R10XJ473	47k	R220	PQ4R10XJ473	47k
R141	PQ4R10XJ105	1M	R221	PQ4R10XJ472	4.7k
R142	PQ4R10XJ102	1k	R222	PQ4R10XJ102	1k
R143	PQ4R10XJ334	330k	R223	ERDS1TJ391	390
R144	PQ4R10XJ103	10k	R225	PQ4R10XJ471	470
R145	PQ4R10XJ334	330k	R226	PQ4R10XJ471	470
R146	PQ4R10XJ271	270	R227	PQ4R10XJ471	470
R147	PQ4R10XJ223	22k	R229	PQ4R10XJ223	22k
R148	PQ4R10XJ333	33k	R230	PQ4R10XJ473	47k
R149	PQ4R10XJ331	330	R231	PQ4R10XJ102	1k
R150	PQ4R10XJ681	680			
R151	PQ4R10XJ105	1M	R233	PQRD12VJ391	390
R152	ERD16TJ105	1M	R234	PQRQ2AJ100	10
R153	ERD16TJ223	22k			
R154	PQ4R10XJ473	47k	R236	PQ4R10XJ222	2.2k
R155	PQ4R10XJ181	180	R237	PQ4R10XJ224	220k
R156	PQ4R10XJ103	10k	R238	PQ4R10XJ152	1.5k
R157	PQ4R10XJ103	10k	R239	PQ4R10XJ473	47k
R158	PQ4R10XJ223	22k	R240	PQ4R18XJ333	33k
R160	PQ4R10XJ222	2.2k	R241	PQ4R10XJ332	3.3k
R161	PQ4R10XJ470	47	R242	PQ4R10XJ152	1.5k
R162	PQ4R10XJ473	47k	R243	PQ4R10XJ103	10k
R163	PQ4R10XJ104	100k	R245	PQ4R10XJ333	33k
R164	PQ4R10XJ224	220k	R253	ERD25TJ220	22
R165	ERD16TJ475	4.7M	R301	ERD10TLJ221	220
R167	PQ4R10XJ473	47k	R302	ERD10TLJ221	220
R168	PQ4R10XJ472	4.7k	R303	ERD10TLJ221	220
R169	PQ4R10XJ103	10k	R304	ERD10TLJ221	220
R170	PQ4R10XJ682	6.8k	R305	ERD10TLJ221	220
R171	PQ4R10XJ222	2.2k	R306	ERD10TLJ221	220
R172	PQ4R10XJ272	2.7k	R307	ERD10TLJ221	220
R173	PQ4R18XJ103	10k	R308	ERD10TLJ271	270
R174	PQ4R10XJ333	33k	R309	ERD10TLJ332	3.3k
R176	PQ4R10XJ103	10k	R310	ERD10TLJ681	680
R177	PQ4R10XJ103	10k	R311	ERD10TLJ152	1.5k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
CAPACITORS					
C1	ECQE2125KZ	1.2	C75	PQCUV1H103MD	0.01
C2	ECEA1HU100	10	C76	PQCUV1H681KC	680P
C5	ECKD2H681KB	680P	C77	ECEA1HU220	22
C6	ECKD2H681KB	680P	C78	PQCUV1H103MD	0.01
C8	ECEA1HKS2R22	0.22	C79	PQCUV1H103MD	0.01
C9	ECQM1H682JV	0.0068	C80	ECEA1AU101	100
C10	ECEA1HKS010	1	C81	ECEA0JU331	330
C12	ECEA1CU221	220	C82	ECEA1AU221	220
C13	PQCUV1C683MD	0.068	C83	PQCUV1H681KC	680P
C14	ECEA1EU470	47	C84	ECEA1CKS100	10
C15	PQCUV1H103MD	0.01	C85	PQCUV1H103MD	0.01
C16	PQCUV1H102MD	0.001	C86	PQCUV1H102MD	0.001
C17	ECEA1AU101	100	C87	ECEA1HKS2R2	2.2
C18	ECEA1HKS010	1	C88	PQCUV1H681KC	680P
C19	PQCUV1C683MD	0.068	C89	ECEA1EU470	47
C20	PQCUV1H103MD	0.01	C90	ECEA1AU221	220
C22	ECEA1HU2R2	2.2	C91	ECEA1HU3R3	3.3
C24	ECEA1HKS010	1	C92	ECUV1H104MD	0.1
C25	PQCUV1E104ZF	0.1	C93	ECUV1H104MD	0.1
C26	PQCUV1H472MD	0.47	C94	ECEA1HKS3R3	0.33
C27	ECEA1CKS100	10	C95	PQCUV1H103MD	0.01
C28	PQCUV1E473MD	0.047	C96	ECUV1H104MD	0.1
C29	PQCUV1H103MD	0.01	C97	ECEA1HUR47	0.47
C30	PQCUV1H332MD	0.0033	C98	ECEA1EU470	47
C31	PQCUV1H223MD	0.022	C99	ECEA0JK221	220
C32	PQCUV1H103MD	0.01	C100	ECEA1HU3R3	3.3
C33	ECQV1H473JZ	0.047	C101	ECEA0JU471	470
C34	ECQM1H152JV	0.0015	C102	ECEA1CK101	100
C35	ECQV1H473JZ	0.047	C103	ECUV1H104MD	0.1
C36	ECEA1HK4R7	4.7	C104	PQCUV1H102MD	0.001
C37	ECEA1HKS0R1	0.1	C105	ECEA1HKS2R2	0.22
C38	PQCUV1C683MD	0.068	C106	ECUV1H104MD	0.1
C39	ECUV1H104MD	0.1	C107	ECEA1AU101	100
C40	PQCUV1E473MD	0.047	C108	ECKD1H103MD	0.01
C41	ECEA0JU471	470	C109	ECQM1H102JV	0.001
C42	PQCUV1H103MD	0.01	C110	ECKD1H103MD	0.01
C43	PQCUV1C683MD	0.068	C112	PQCUV1H223MD	0.022
C44	PQCUV1E333MD	0.033	C113	ECEA0JU331	330
C45	PQCUV1C683MD	0.068	C115	ECEA1HKS3R3	3.3
C46	PQCUV1H223MD	0.022	C116	EECW0HS473Z	0.047F
C47	ECEA1HKS010	1	C117	ECEA1AU221	220
C48	PQCUV1H223MD	0.022	C119	ECUV1H104MD	0.1
C49	ECEA1HKS010	1	C120	PQCUV1H101JC	100P
C50	ECEA1VKS4R7	4.7	C121	PQCUV1H101JC	100P
C51	PQCUV1C683MD	0.068	C122	PQCUV1H223MD	0.022
C52	PQCUV1H153MD	0.015	C123	ECEA1AU221	220
C54	PQCUV1E333MD	0.033	C124	PQCUV1H103MD	0.01
C55	PQCUV1E473MD	0.047	C125	ECUV1H334ZF	0.33
C56	ECEA0JKS470	47	C127	PQCUV1E473MD	0.047
C57	ECEA1HK4R7	4.7	C129	PQCUV1H103MD	0.01
C58	ECEA1HK4R7	4.7	C131	ECEA1CK101	100
C59	ECEA1CKS470	47	C132	PQCUV1E333MD	0.033
C60	PQCUV1H222MD	0.0022	C133	PQCUV1H103MD	0.01
C61	PQCUV1H153MD	0.015	C134	PQCUV1H103MD	0.01
C62	PQCUV1E473MD	0.047	C136	ECUV1H104MD	0.1
C63	PQCUV1H101JC	100P	C137	ECEA0JK221	220
C64	ECEA1CKS100	10	C139	PQCUV1H152MD	0.0015
C65	ECBC1C103MY	0.01	C140	PQCUV1E104ZF	0.1
C66	PQCUV1H103MD	0.01	C141	PQCUV1H472MD	0.0047
C68	ECUV1H104MD	0.1	C143	ECKD1H152KB	0.0015
C69	ECEA1HU010	1	C144	ECEA0JK221	220
C70	PQCUV1H223MD	0.022	C145	PQCUV1H103MD	0.01
C71	PQCUV1H102MD	0.001	C146	ECEA1AU221	220
C72	ECEA1HKS010	1	C147	ECEA1AU221	220
C73	ECEA1VU330	33	C148	ECEA0JKS220	22
C74	ECEA1HUR33	0.33	C149	PQCUV1H103MD	0.01

R232 PQ4R10XJ473 --- For Deck Part No. PQJD2040X
R235 PQ4R10XJ223 --- For Deck Part No. PQJD2040X
R232 PQ4R10XJ333 --- For Deck Part No. PQJD2040Y

CIRCUIT BOARD AND WIRING

(Component)

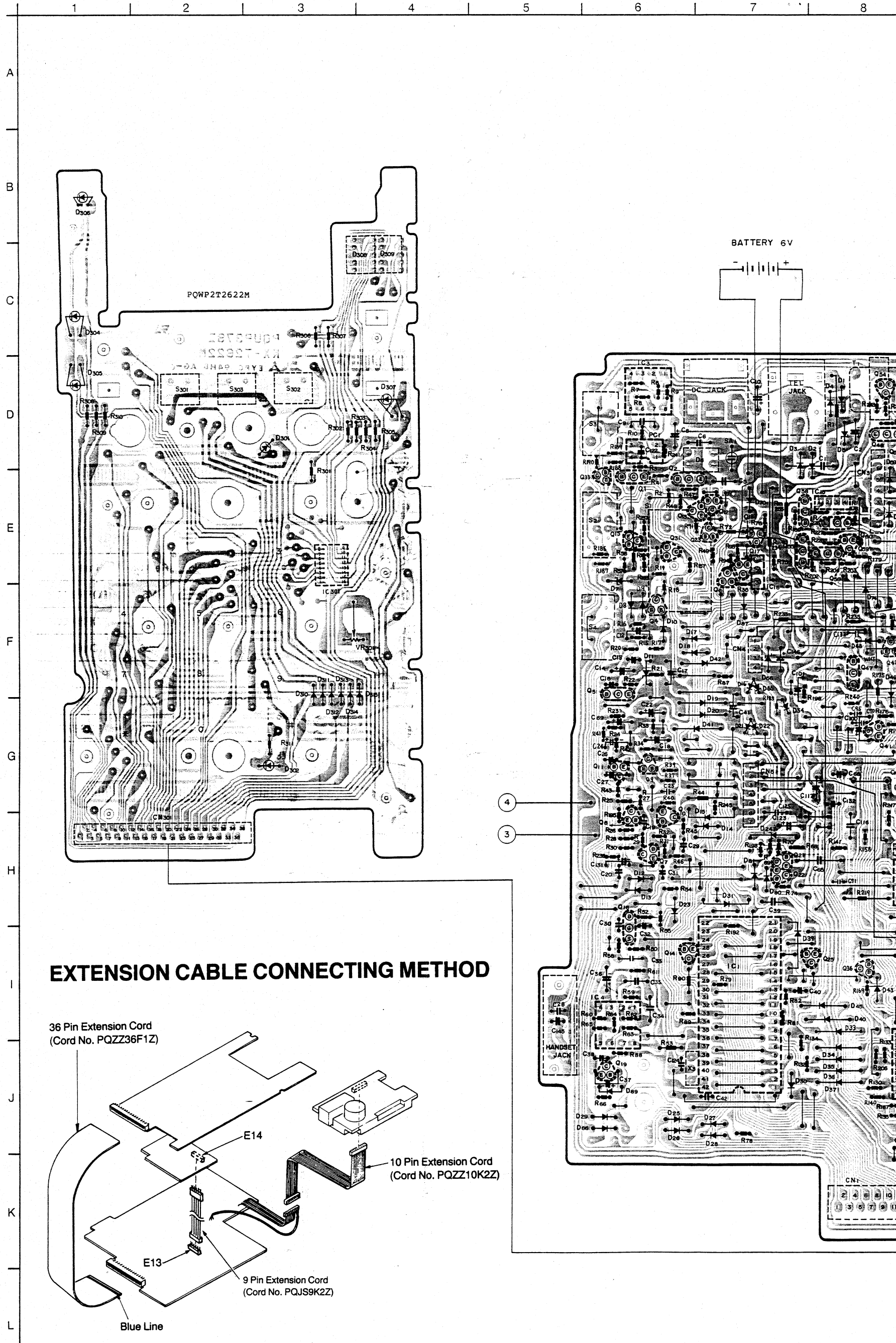
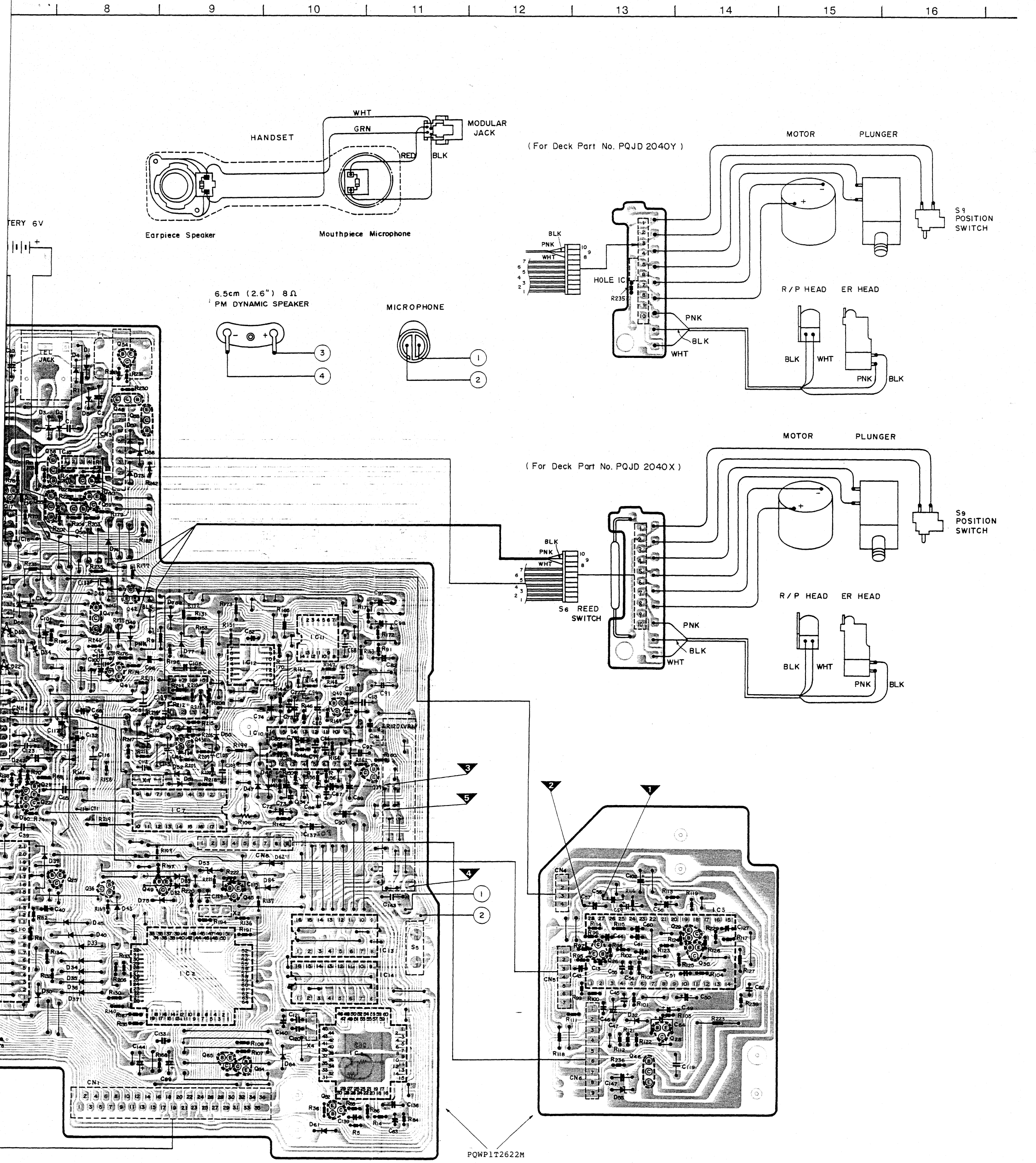


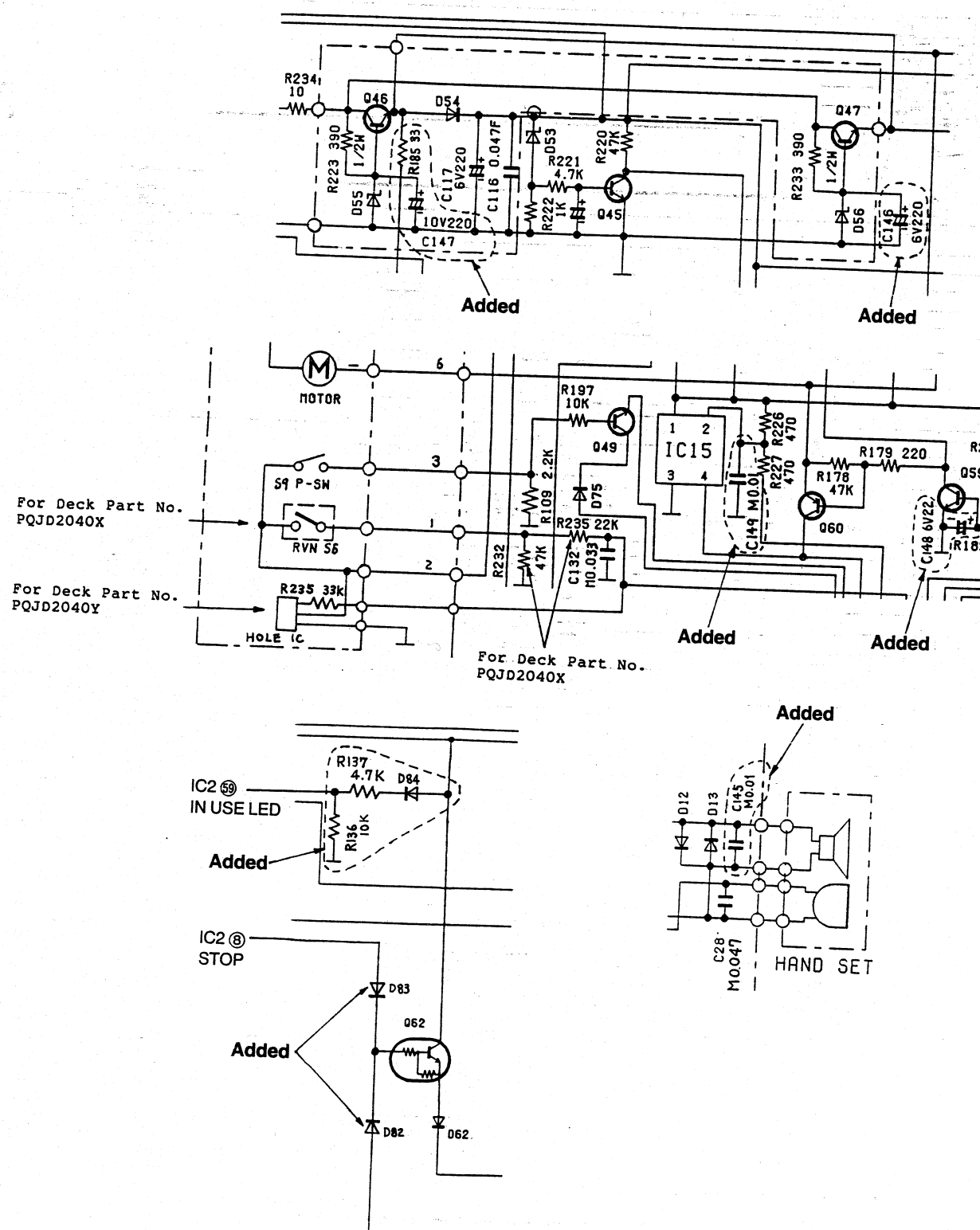
Fig. 1

RD AND WIRING CONNECTION DIAGRAM

(Component View)

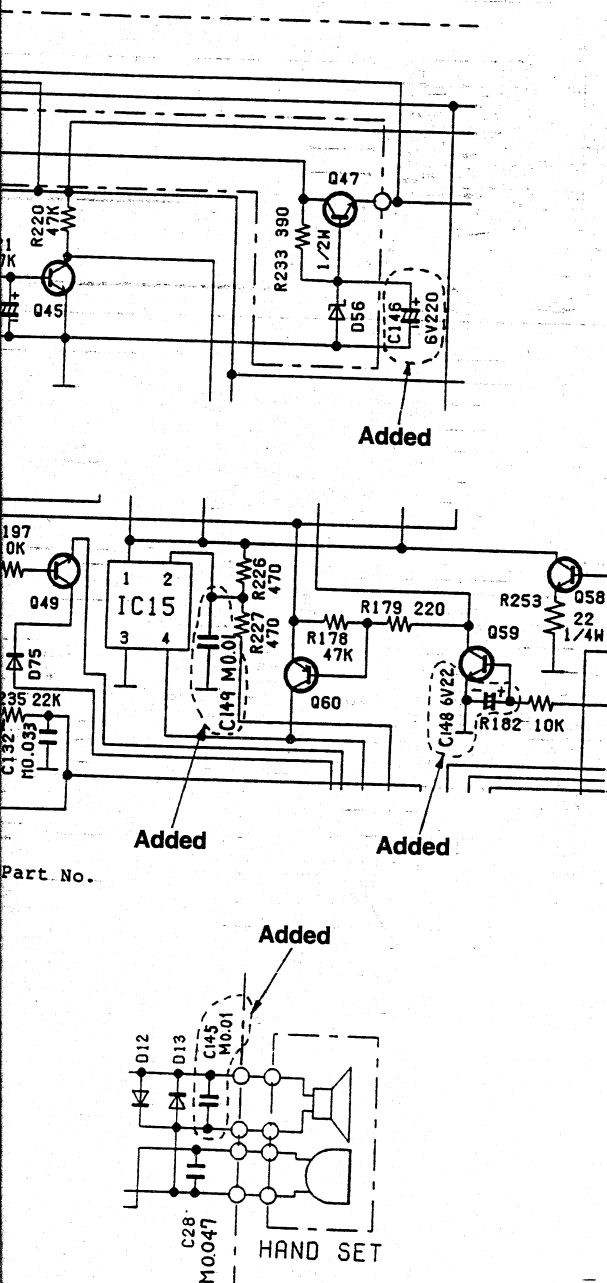


SCHEMATIC DIAGRAM



(KX-T2622 Supplement-1)

ATIC DIAGRAM



EXPLODED VIEW (DECK)

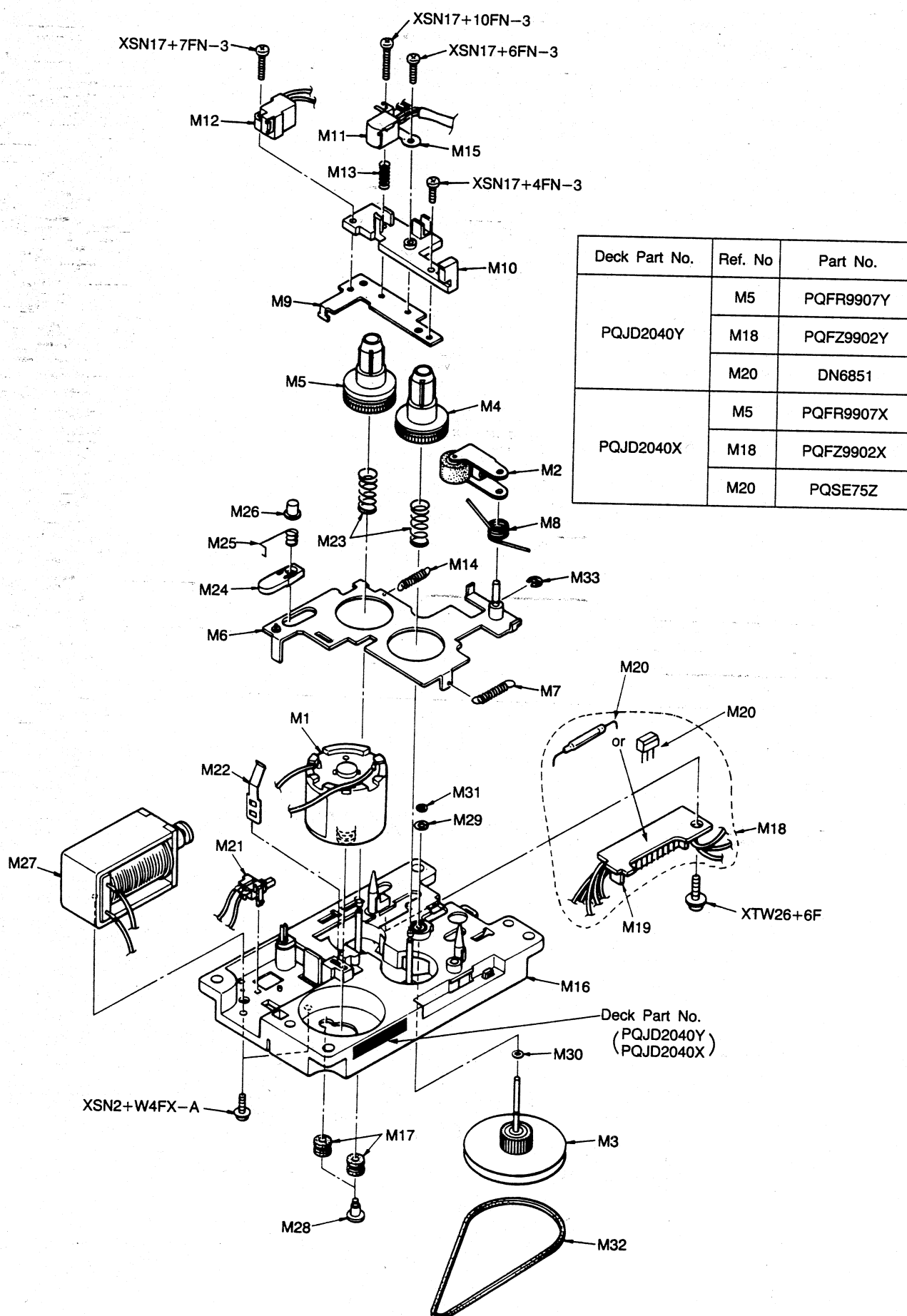
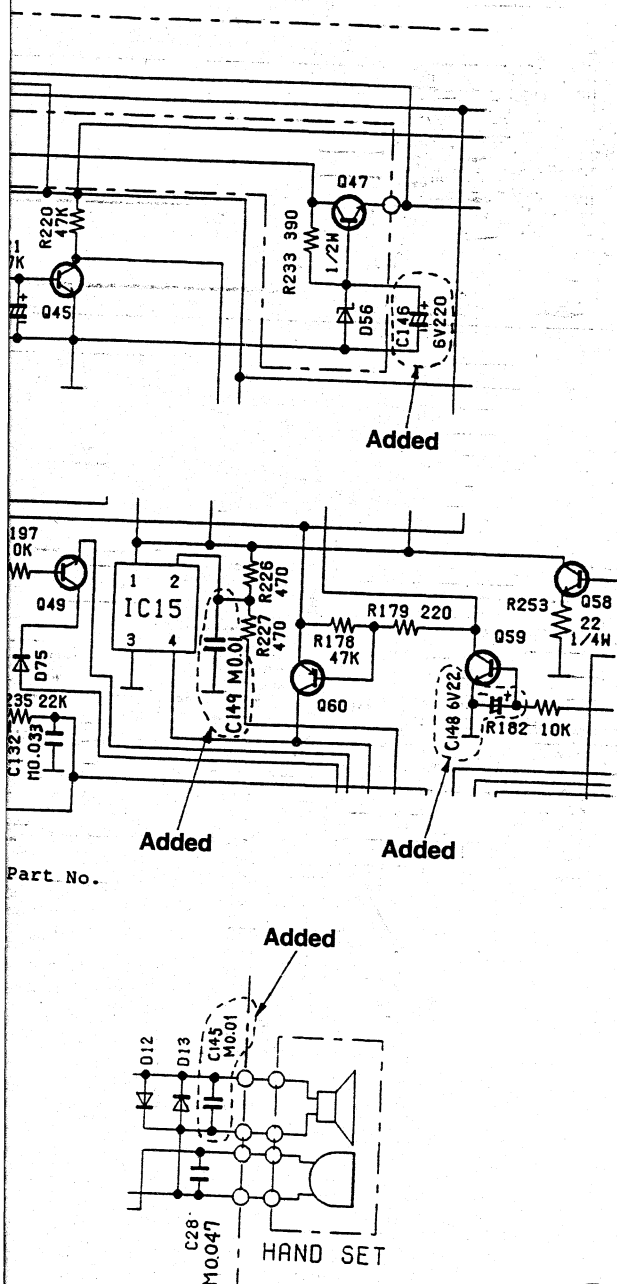
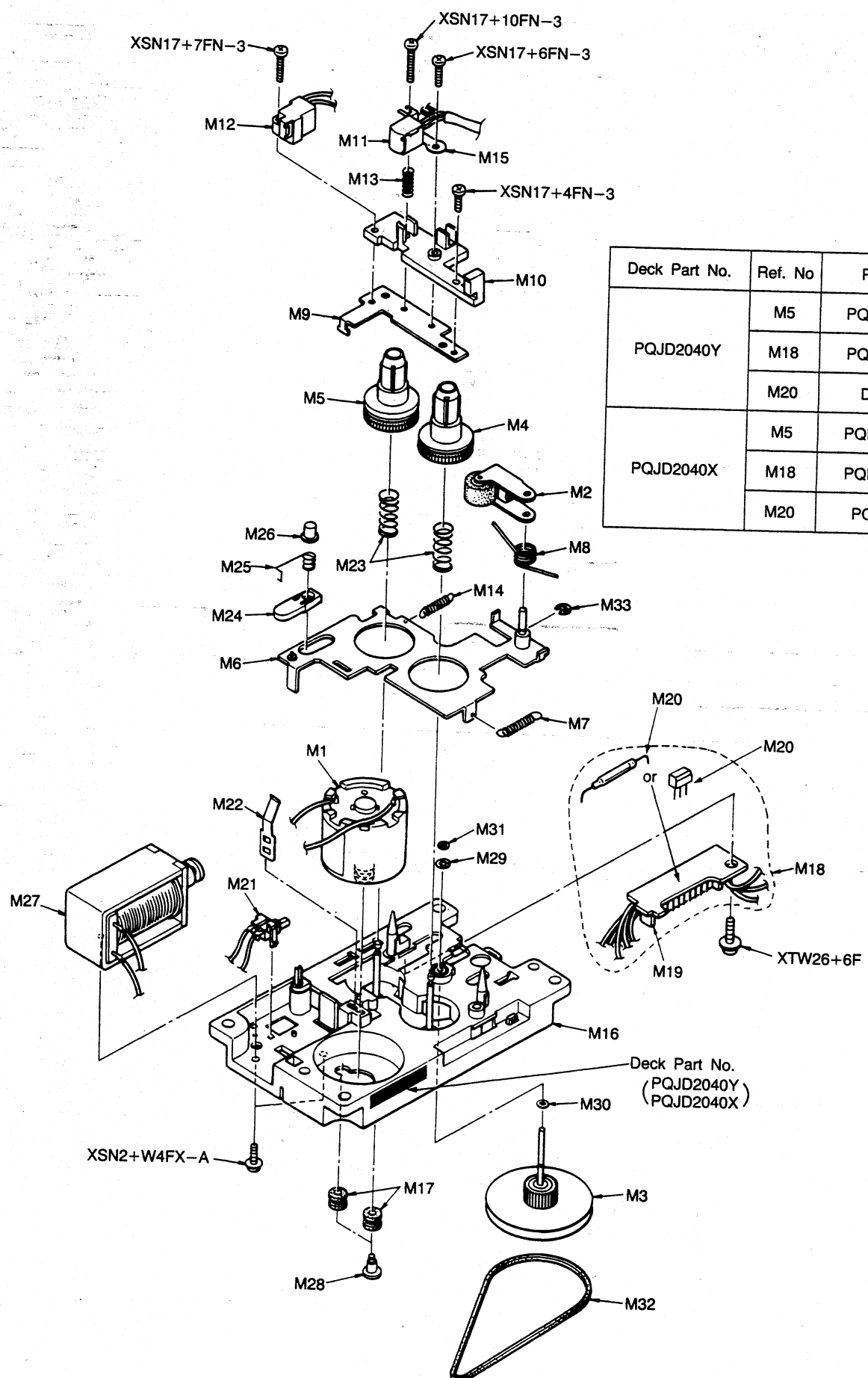


Fig. 2

ATIC DIAGRAM



EXPLODED VIEW (DECK)



Deck Part No.	Ref. No	Part No.
PQJD2040Y	M5	PQFR9907Y
	M18	PQFZ9902Y
	M20	DN6851
PQJD2040X	M5	PQFR9907X
	M18	PQFZ9902X
	M20	PQSE75Z

Fig. 2

Service Manual

Telephone Equipment

KX-T2622-A

AUTO-LOGIC™

EASA-PHONE®



Integrated
Telephone System

- Please use this manual together with the service manual for model No. KX-T2622, order No. KM48611397C1.
- This Service Manual indicates the main differences between; Original KX-T2622 and KX-T2622-A.

Panasonic EASA-PHONE
MODEL NO. KX-T2622
TELEPHONE EQUIPMENT
POWER SOURCE
DC IN 12V (USE Panasonic AC ADAPTOR
KX-A11 ONLY.)
Matsushita Electric Industrial Co., Ltd. Made in Japan
Complies With Part 68, FCC Rules
FCC Registration Number ACJ96N-72641-MT-E
Ringer Equivalence 1.0B

(Model KX-T2622)

Panasonic EASA-PHONE
MODEL NO. KX-T2622
TELEPHONE EQUIPMENT
POWER SOURCE
DC IN 12V (USE Panasonic AC ADAPTOR
KX-A11 ONLY.)
Matsushita Electric Industrial Co., Ltd. Made in Japan
Complies With Part 68, FCC Rules
FCC Registration Number ACJ96N-72641-MT-E
Ringer Equivalence 1.0B

(Model KX-T2622-A)

1. The model KX-T2622-A, have a mark (A) behind the Model No. of the name plate shown in figure at the left as indicated.
2. There are 2 types of model KX-T2622, such as KX-T2622 and the KX-T2622-A.
3. Please use this manual for model KX-T2622-A.

CHANGES

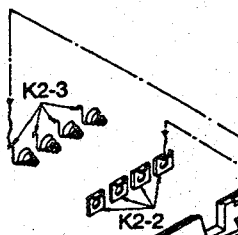
■ CPU DATA

IC2 PQVI4042FF95
(Model KX-T2622)

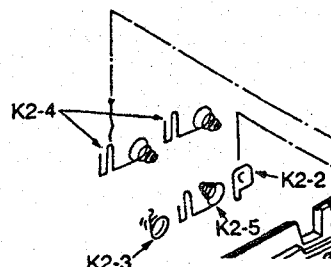


IC2 PQVI4042FG57
(The contents of CPU data does not change.)
(Model KX-T2622-A)

■ CABINET AND ELECTRICAL PARTS LOCATION



(Model KX-T2622)



(Model KX-T2622-A)

Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094.

Panasonic Hawaii Inc.
91-238 Kauhū St. Ewa Beach
P. O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada
Limited
5770 Ambler Drive,
Mississauga, Ontario, L4W 2T3

Panasonic Sales Company,
Division of Matsushita Electric of
Puerto Rico, Inc.
Ave. 65 De Infantería. KM9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

REPLACEMENT PARTS LIST

Model KX-T2622-A

Notes:

1. Important safety notice.

Components identified by the Δ mark special characteristics important for safety.

When replacing any of these components, use only manufacture's specified parts.

2. The S mark indicates service standard parts and may differ from production parts.

3. RESISTORS & CAPACITORS

Unless otherwise specified.

All resistors are in ohms (Ω) k=1000 Ω , M=1000k Ω

All capacitors are in MICRO FARADS (μ F) P= μ F

*Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	ERDS,PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fusible Resistor
RRD:Chip	ERO:Metal Film	PQ4R:Chip

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,PQCBC,ECBC : Ceramic
EQQS:Styrol	ECQM,ECQV,ECQE : Polyester
PQCBX,ECUV,PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECMS:Mica	EECW : Electric Double Layer

Voltage

ECQ Type	ECQG Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs
MECHANICAL PARTS			
M1	PQFM9904Z	Motor Ass'y (with Pulley)	1
M2	PQFD9904Z	Pinch Roller Ass'y	1
M3	PQFF9904Y	Flywheel Ass'y	1
M4	PQFR9906Z	Takeup Reel Table Ass'y	1
M5	PQFR9907X	Supply Reel Table Ass'y	1
M6	PQFD9906Z	Operation Plate	1
M7	PQFS69Z	Spring	1
M8	PQFS68Z	Spring	1
M9	PQFD57Z	Head Base Plate	1
M10	PQFW25Z	Head Base	1
M11	PQJH1M2Z	R/P Head	1
M12	PQJH6M2Z	Erase Head	1
M13	PQFS73Z	Spring	1
M14	PQFS70Z	Spring	1
M15	PQFJ1Z	Terminal	1
M16	PQFC9904X	Mechanism Chassis Ass'y	1
M17	PQFI14Z	Rubber, Motor	2
M18	PQFZ9902X	Reed Switch P.C.Board Ass'y	1
M19	PQJP10G38Z	Connector, 10Pin	1
M20	PQSE75Z	Reed Switch (S6)	1
M21	PQSH1A17Y	Head Position Switch (S9)	1
M22	PQFD64Z	Spring	1
M23	PQFS82Z	Spring	2
M24	PQFW32Z	Cam	1
M25	PQFS81Z	Spring	1
M26	PQFW33Z	Cap	1
M27	PQFP117Z	Plunger	1
M28	PQHD15Z	Screw	2
M29	PQFN34Z	Washer	1
M30	PQFN35Z	Washer	1
M31	PQFN33Z	Washer	1
M32	PQFB12Z	Belt	1
M33	XUC15FP-V	Stop Ring	1
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES			
IC1	MN158342KTJ1	IC	1
IC2	PQV14042FG57	IC	1
IC3	PQV1R3N34A	IC	1

Ref. No.	Part No.	Part Name & Description	Pcs
IC4	PQVIUPC358C	IC	1
IC5	PQVISC77655P	IC	1
IC6	PQVINJM4558D	IC	1
IC7	PQVIMT8870BC	IC	1
IC8	PQVIT6668	IC	1
IC10	PQVITA7628P	IC	1
IC11,12	PQVITC4066BF	IC	2
IC13,14	PQVITM41256A	IC	2
IC15	AN6651	IC	1
IC16	MN1280R	IC	1
IC301	PQVIBA6251F	IC	1
Q1	2SA1625	Transistor (Si)	1 Δ
Q2	2SD662B	Transistor (Si)	1 Δ
Q4,6,11-13,21,26,28-31,39,41,42,45,49,52,54,59,61	2SD1819A	Transistor (Si)	20
Q5	2SC2120	Transistor(Si)	1
Q7,10	2SD1328	Transistor(Si)	2
Q14,22	UN5113	Transistor(Si)	2
Q15,17	2SB1218A	Transistor(Si)	6
18,33,64,65			
Q16	2SK301	Transistor(Si)	1
Q19,25	UN5213	Transistor(Si)	2
Q46,47	2SD1266	Transistor(Si)	2
Q48,55,56,60	2SB909M	Transistor(Si)	4
Q53	2SD1225M	Transistor(Si)	1
Q58	2SC1652	Transistor(Si)	1
D1-4,10,12,13,14,17,18,23,25-30,32,39,43,46-52,54,58,59,61,64,66,73,75,77,78,80,81,85,87,89,310-315	1SS131	Diode (Si)	48 Δ
D5	MA4300	Diode(Si)	1 Δ
D6	PQVDS1YB40F1	Diode(Si)	1 Δ
D7	MA4180	Diode(Si)	1 Δ
D11	MA7051	Diode(Si)	1
D15,19,20,31,34-37,40,42,45,74	1S2076	Diode(Si)	12
D24	PQVDHZ2CLL02	Diode(Si)	1
D41,70	MA700	Diode(Si)	2
D53	PQVDMTZ4R7	Diode(Si)	1
D55,56	PQVDMTZ6R8	Diode(Si)	2
D301,302,306	PQVDSLP181B	LED	3
D304	PQVDSLP251B	LED	1
D305	PQVDSLP151B	LED	1
D307	LN222RPH	LED	1
D308,309	PQVDLA301YB	LED	2
D16,21,22,65	MA151WA	Diode (Si)	2

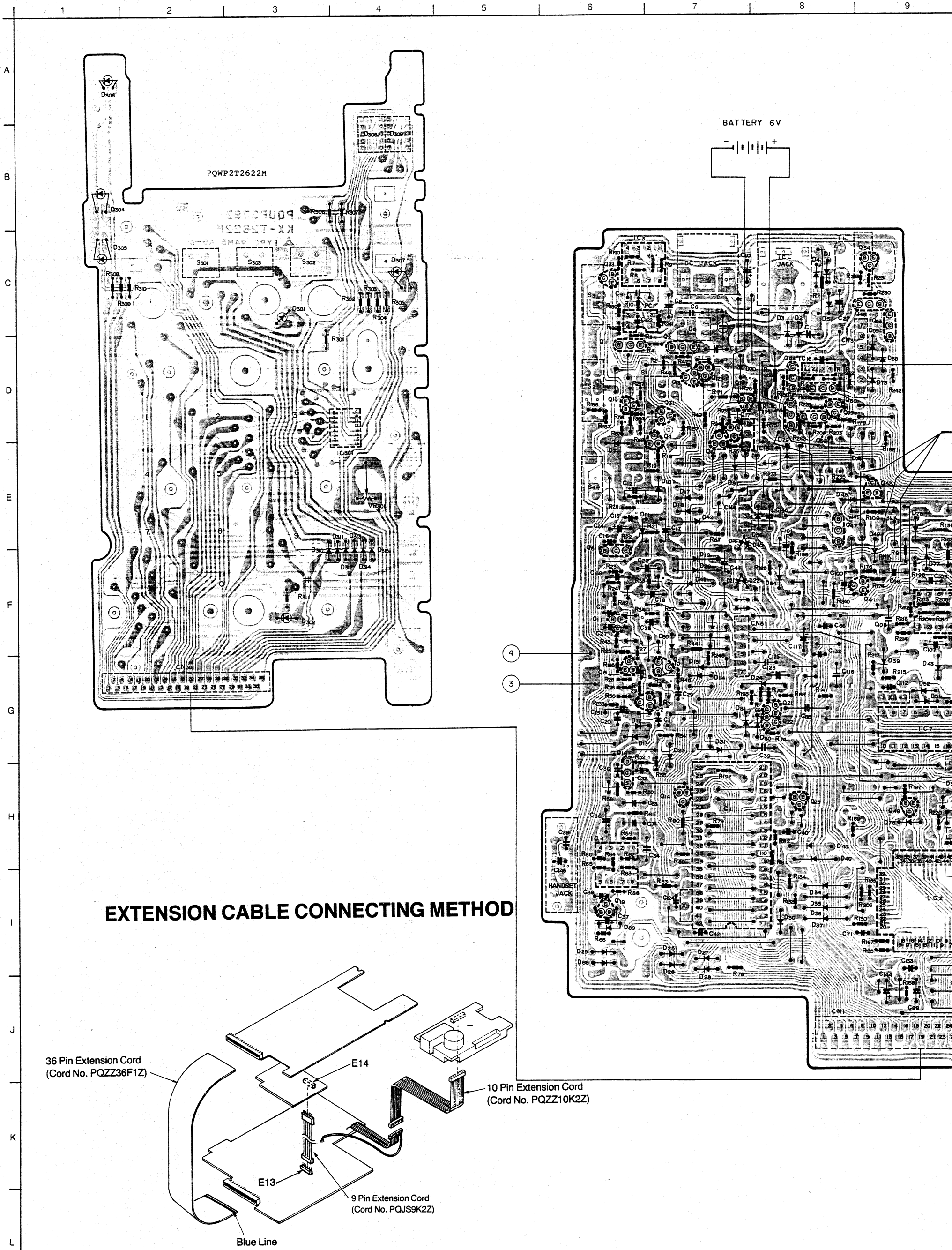
Ref. No.	Part No.	Part Name & Description	Pcs
SWITCHES			
S1	PQSH1B12Y	Switch, Hook	1 Δ
S2	PQSS3B10Z	Switch, Ring	1
S3,4	PQSS2A27Z	Switch, Memory, Tone/Pulse	2
S5	EVQ-QBH08T	Switch, Answer System On/Off	1
S301, 302, 303	PQSH1A30Z	Switch, Memo, Rewind, Fast Forward	3
JACKS			
J1	PQJ1B3Z	Jack, DC IN	1
J2	PQJ1TA9Y	Jack, Telephone Line	1 Δ
J3	PQJ1TB10Z	Jack, Handset	1
TRANSFORMER			
T1	PQLT2D3A	Transmission Transformer	1
VARIABLE RESISTORS			
R106	PQNB3A00B24M	Semi-Fixed Resistor, 20k Ω (B)	1
R120	PQVAM0A14B24	Volume Control, 20k Ω (B)	1
VR301	EVNK4A00B13	Semi-Fixed Resistor, 1k Ω (B)	1
OTHERS			
X1,3	PQVBF3C3584A1	Ceramic Oscillator	2
X2	PQVBF4C004A3	Ceramic Oscillator	1
X4	PQVBKBR655B	Ceramic Oscillator	1
SA1	PQVDSAE350	Surge Absorber	1 Δ
PC1	PQVJL5151DA	Photo Coupler	1
CABINET PARTS			
K1	PQYMT2622M	Upper Cabinet Ass'y	1
K1-1	PQBCX28Z	Button, Memo, Rewind, Fast Forward	1
K2	PQYFT2622MA	Lower Cabinet Ass'y	1
K2-1	RHG1028Z	Rubber, Leg	2
K2-2	RJC314A	Battery Terminal, (+) Side	1
K2-3	PQJC707Z	Battery Terminal, (-) Side	1
K2-4	PQJC922Z	Battery Terminal, (+)(-) Side	2
K2-5	PQJC923Z	Battery Terminal, (+)(-) Side	1
K3	PQYQT2622M	Cassette Lid Ass'y	1
K4	PQBCX31Z	Button, Key Station	1
K5	PQBC131Y	Button, Answer System On/Off	1
K6	PQBC133Y	Button, Playback/Pause	1
K7	PQBD71Z	Knob, Volume Control	1
K8	PQHP532V	Telephone Card	1
K9	PQHP560Z	Telephone Card	1
K10	PQHR576Z	Transparent Cover	1
K11	PQHR9163Z	Transparent Cover	1
K12	PQKE32X2	Handset Holder	1
K13	PQKK3420	Battery Cover	1
K14	PQUS65Z	Spring, Handset Holder	1
ELECTRICAL PARTS			
E1	RJM142Z	Microphone	1
E2	PQHG503Z	Rubber, Microphone	1
E3	PQUL49Z	Bracket, Microphone	1
E4	PQAS65P10Z	Speaker, 6.5cm(2.6")8 Ω	1
E5	PQJE51Z	Flat Cable	1
E6	PQJS36X31Z	Connector, 36Pin	1
E7	PQJS10L31Z	Connector, 10Pin	1
E8	PQJS36X30Z	Connector, 36Pin	1
E9	PQHR440Z	LED Spacer	4
E10	PQSE62Y	Button, 12Key	1
E11	PQSE63Z2	Button, 2Key	1
E12	XWG3F13	Washer	1
E13	PQJP9D58Z	Connector, 9Pin (Refer to Fig.1)	1
E14	PQJS9B30Z	Connector, 9Pin (Refer to Fig.1)	1

Ref. No.	Part No.	Part Name & Description			Pcs
HANDSET PARTS					
H1	PQJX2PM201X	Handset Ass'y			1
H1-1	PQKM36L	Lower Cabinet			1
H1-2	PQKF34X	Upper Cabinet			1
H1-3	PQJE47Z	Earpiece Speaker			1
H1-4	PQHR9101Z	Cushion			1
H1-5	PQJM110Z	Mouthpiece Microphone			1
H1-6	PQUL59Z	Weight			1
H1-7	PQHG417Z	Rubber Cap			2
H1-8	PQHG412Z	Rubber Spacer			2
ACCESSORIES					
A1	KX-A11	AC Adaptor			1 
A2	PQJA30V	Curl Cord			1
A3	PQJA59Y	Telephone Cord			1
A4	RT-N60-JT1P	Micro Cassette (MC-60)			1
A5	PQKL13Z	Wall Mount Bracket			1
A6	PQQX1301Z	Dial Card			1
A7	PQQX5334Y	Instruction Book			1
PACKING MATERIALS					
P1	XZB26X40A01	Polyethylene Cover			1
P2	PQPH70Z	Soft Cover			1
P3	PQPN657Z	Pad			1
P4	PQPN903Z	Pad			1
P5	PQPK427Y	Gift Box			1
Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS					
R1	PQRD1TJ622	6.2k 	R52	PQ4R10XJ684	680k
R2	PQ4R10XJ683	68k 	R53	ERD16TJ473	47k 
R3	PQ4R10XJ104	100k 	R54	PQ4R10XJ332	3.3k
R4	PQ4R10XJ472	4.7k 	R55	PQ4R10XJ104	100k
R5	PQ4R10XJ333	33k	R56	ERDS1TJ470	47
R6	PQ4R10XJ103	10k	R57	PQ4R10XJ102	1k
R7	PQ4R10XJ224	220k	R58	PQ4R10XJ103	10k
R8	PQ4R10XJ184	180k	R59	PQ4R10XJ183	18k
R9	PQ4R10XJ471	470	R60	PQ4R10XJ103	10k
R10	PQ4R10XJ223	22k	R61	PQ4R10XJ562	5.6k
R14	PQ4R10XJ223	22k	R62	PQ4R10XJ394	390k
R15	PQ4R10XJ473	47k	R63	PQ4R10XJ103	10k
R16	PQ4R10XJ562	5.6k	R64	PQ4R10XJ153	15k
R19	PQ4R10XJ103	10k	R65	PQ4R10XJ104	100k
R20	PQ4R10XJ821	820	R66	PQ4R10XJ103	10k
R21	PQ4R10XJ150	15	R68	PQ4R10XJ472	4.7k
R22	PQ4R10XJ330	33	R69	PQ4R10XJ223	22k
R23	PQ4R10XJ102	1k	R70	PQ4R10XJ103	10k
R24	PQ4R10XJ153	15k	R71	ERD16TJ105	1M
R25	PQ4R10XJ152	1.5k	R74	PQ4R10XJ473	47k
R26	PQ4R10XJ271	270	R76	PQ4R10XJ684	680k
R27	PQ4R10XJ155	1.5M	R78	PQ4R10XJ152	1.5k
R28	PQ4R10XJ103	10k	R79	PQ4R10XJ152	1.5k
R29	PQ4R10XJ472	4.7k	R81	PQ4R10XJ104	100k
R30	PQ4R10XJ103	10k	R82	PQ4R10XJ104	100k
R31	PQ4R10XJ224	220k	R84	PQ4R10XJ105	1M
R32	PQ4R10XJ472	4.7k	R85	PQ4R10XJ105	1M
R33	PQ4R10XJ103	10k	R86	PQ4R10XJ824	820k
R34	PQ4R10XJ102	1k	R87	PQ4R10XJ104	100k
R35	PQ4R10XJ105	1M	R88	PQ4R10XJ104	100k
R36	PQ4R10XJ103	10k	R89	PQ4R10XJ104	100k
R37	PQ4R10XJ472	4.7k	R90	ERD16TJ473	47k
R42	PQ4R10XJ394	390k	R91	PQ4R10XJ100	10
R43	PQ4R10XJ331	330	R93	PQ4R10XJ684	680k
R44	ERD25TJ472	4.7k	R94	PQ4R10XJ683	68k
R45	PQ4R10XJ275	2.7M	R95	PQ4R10XJ103	10k
R47	PQ4R10XJ104	100k	R96	PQ4R10XJ332	3.3k
R48	PQ4R10XJ473	47k	R97	PQ4R10XJ151	150
R49	PQ4R10XJ473	47k	R98	PQ4R10XJ824	820k
R50	PQ4R10XJ224	220k	R99	PQ4R10XJ333	33k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R100	PQ4R10XJ683	68k	R186	PQ4R10XJ150	15
R101	PQ4R10XJ225	2.2M	R187	PQ4R10XJ150	15
R102	PQ4R10XJ392	3.9k	R188	PQ4R10XJ224	220k
R103	PQ4R10XJ275	2.7M	R189	PQ4R10XJ224	220k
R104	PQ4R10XJ472	4.7k	R190	PQ4R10XJ104	100k
R105	PQ4R10XJ822	8.2k	R191	PQ4R10XJ104	100k
R107	PQ4R10XJ103	10k	R192	PQ4R10XJ103	10k
R108	PQ4R10XJ103	10k	R193	PQ4R10XJ335	3.3M
R109	PQ4R10XJ222	2.2k	R194	PQ4R10XJ105	1M
R111	PQ4R10XJ103	10k	R195	PQ4R10XJ151	150
R112	PQ4R10XJ103	10k	R196	PQ4R10XJ393	39k
R113	PQ4R10XJ104	100k	R197	PQ4R10XJ103	10k
R114	PQ4R10XJ183	18k	R198	PQ4R10XJ680	68
R115	PQ4R10XJ104	100k	R202	PQ4R10XJ473	47k
R116	PQ4R10XJ104	100k	R203	PQ4R10XJ471	470
R117	PQ4R10XJ152	1.5k	R204	PQ4R10XJ473	47k
R118	ERD16TJ104	100k	R205	PQ4R10XJ683	68k
R119	PQ4R10XJ473	47k	R206	PQ4R10XJ473	47k
R121	PQ4R10XJ103	10k	R208	PQ4R10XJ683	68k
R122	PQ4R10XJ473	47k	R209	PQ4R10XJ104	100k
R123	PQ4R10XJ473	47k	R210	PQ4R10XJ102	1k
R124	PQ4R10XJ473	47k	R211	PQ4R10XJ472	4.7k
R125	PQ4R10XJ473	47k	R212	PQ4R10XJ472	4.7k
R126	PQ4R10XJ473	47k	R213	PQ4R10XJ184	180k
R127	ERD16TJ223	22k	R214	PQ4R10XJ684	680k
R130	PQ4R10XJ224	220k	R215	PQ4R10XJ222	2.2k
R131	PQ4R10XJ223	22k	R216	PQ4R10XJ683	68k
R132	PQ4R10XJ104	100k	R217	PQ4R10XJ103	10k
R133	PQ4R10XJ473	47k	R218	PQ4R10XJ683	68k
R134	PQ4R10XJ333	33k	R220	PQ4R10XJ473	47k
R135	PQ4R10XJ333	33k	R221	PQ4R10XJ472	4.7k
R141	PQ4R10XJ335	3.3M	R222	PQ4R10XJ102	1k
R142	PQ4R10XJ102	1k	R223	ERDS1TJ391	390
R143	PQ4R10XJ334	330k	R225	PQ4R10XJ471	470
R144	PQ4R10XJ103	10k	R226	PQ4R10XJ471	470
R145	PQ4R10XJ334	330k	R227	PQ4R10XJ471	470
R146	PQ4R10XJ271	270	R229	PQ4R10XJ223	22k
R147	PQ4R10XJ223	22k	R230	PQ4R10XJ473	47k
R148	PQ4R10XJ103	10k	R231	PQ4R10XJ102	1k
R150	PQ4R10XJ681	680	R232	PQ4R10XJ473	47k
R153	ERD16TJ223	22k	R233	PQRD12VJ391	390
R154	PQ4R10XJ473	47k	R234	PQRQ2AJ100	10
R155	PQ4R10XJ181	180	R235	PQ4R10XJ223	22k
R156	PQ4R10XJ103	10k	R236	PQ4R10XJ222	2.2k
R157	PQ4R10XJ103	10k	R237	PQ4R10XJ224	220k
R160	PQ4R10XJ222	2.2k	R238	PQ4R10XJ152	1.5k
R161	PQ4R10XJ470	47	R239	PQ4R10XJ473	47k
R165	ERD16TJ475	4.7M	R240	PQ4R18XJ224	220k
R167	PQ4R10XJ473	47k	R241	PQ4R10XJ332	3.3k
R168	PQ4R10XJ472	4.7k	R242	PQ4R10XJ152	1.5k
R169	PQ4R10XJ103	10k	R243	PQ4R10XJ103	10k
R170	PQ4R10XJ682	6.8k	R245	PQ4R10XJ333	33k
R171	PQ4R10XJ222	2.2k	R253	ERD25TJ220	22
R172	PQ4R10XJ272	2.7k	R256	ERD16TJ563	56k
R173	PQ4R18XJ103	10k	R301	ERD10TLJ221	220
R174	PQ4R10XJ333	33k	R302	ERD10TLJ221	220
R176	PQ4R10XJ103	10k	R303	ERD10TLJ221	220
R178	PQ4R10XJ473	47k	R304	ERD10TLJ221	220
R179	PQ4R10XJ221	220	R305	ERD10TLJ221	220
R180	PQ4R10XJ681	680	R306	ERD10TLJ221	220
R182	PQ4R10XJ103	10k	R307	ERD10TLJ221	220
R183	PQ4R10XJ103	10k	R308	ERD10TLJ271	270
R184	PQ4R10XJ104	100k	R309	ERD10TLJ332	3.3k
R185	PQ4R10XJ330	33	R310	ERD10TLJ681	680
			R311	ERD10TLJ152	1.5k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
CAPACITORS					
C1	ECQE2125KZ	1.2	C69	ECEA1HU100	10
C2	ECEA1HU100	10	C71	PQCUV1H103MD	0.01
C5	ECKD2H681KB	680P	C72	ECEA1HKS010	1
C6	ECKD2H681KB	680P	C73	ECEA1VU330	33
C8	ECEA1HKS022	0.22	C74	ECEA1HUR33	0.33
C9	ECQM1H682JV	0.0068	C75	PQCUV1H103MD	0.01
C10	ECEA1HKS010	1	C76	PQCUV1H681KC	680P
C12	ECEA1CU221	220	C77	ECEA1HU220	22
C13	PQCUV1C683MD	0.068	C78	PQCUV1H103MD	0.01
C14	ECEA1EU470	47	C79	PQCUV1H103MD	0.01
C15	PQCUV1H223MD	0.022	C80	ECEA1AU101	100
C16	PQCUV1H102MD	0.001	C82	ECEA1AU221	220
C17	ECEA1AU101	100	C83	PQCUV1H681KC	680P
C18	ECEA1HKS010	1	C84	ECEA1CKS100	10
C19	PQCUV1C683MD	0.068	C85	PQCUV1H103MD	0.01
C20	PQCUV1H103MD	0.01	C86	PQCUV1H102MD	0.001
C22	ECEA1HU2R2	2.2	C87	ECEA1HKS2R2	2.2
C25	PQCUV1C683MD	0.068	C88	PQCUV1H681KC	680P
C26	PQCUV1H222MD	0.0022	C89	ECEA1EU470	47
C27	ECEA1CKS100	10	C90	ECEA1AU221	220
C28	PQCUV1H103MD	0.01	C92	ECUV1H104MD	0.1
C29	PQCUV1H103MD	0.01	C93	ECUV1H104MD	0.1
C30	PQCUV1H332MD	0.0033	C96	ECUV1H104MD	0.1
C31	PQCUV1H223MD	0.022	C97	ECEA1HUR47	0.47
C32	PQCUV1H103MD	0.01	C98	ECEA1EU470	47
C33	ECQV1H473JZ	0.047	C99	ECEA0JK221	220
C34	ECQM1H152JV	0.0015	C100	ECEA1HU3R3	3.3
C35	ECQV1H473JZ	0.047	C101	ECEA0JU471	470
C36	ECEA1HK4R7	4.7	C102	ECEA1CK101	100
C37	ECEA1HKS0R1	0.1	C103	ECUV1H103MD	0.01
C38	PQCUV1C683MD	0.068	C106	ECUV1H104MD	0.1
C39	ECUV1H104MD	0.1	C107	ECEA1AU101	100
C40	PQCUV1E473MD	0.047	C108	ECKD1H103MD	0.01
C41	ECEA0JU471	470	C112	PQCUV1H223MD	0.022
C42	PQCUV1H103MD	0.01	C115	ECEA1HKS3R3	3.3
C43	PQCUV1C683MD	0.068	C116	ECEW0HS473Z	0.047F
C44	PQCUV1E333MD	0.033	C117	ECEA0JK221	220
C45	PQCUV1C683MD	0.068	C119	ECUV1H104MD	0.1
C46	PQCUV1H223MD	0.022	C120	PQCUV1H101JC	100P
C47	ECEA1HKS010	1	C121	PQCUV1H101JC	100P
C48	PQCUV1H223MD	0.022	C122	PQCUV1H223MD	0.022
C49	ECEA1HKS010	1	C123	ECEA1AU221	220
C50	ECEA1VKS4R7	4.7	C124	PQCUV1H103MD	0.01
C51	PQCUV1C683MD	0.068	C125	ECUV1H334ZF	0.33
C52	PQCUV1H153MD	0.015	C127	PQCUV1E473MD	0.047
C54	PQCUV1E333MD	0.033	C129	PQCUV1H103MD	0.01
C55	PQCUV1E473MD	0.047	C131	ECEA1CK101	100
C56	ECEA0JKS470	47	C132	PQCUV1E333MD	0.033
C57	ECEA1HK4R7	4.7	C133	PQCUV1H103MD	0.01
C58	ECEA1HK4R7	4.7	C134	PQCUV1H103MD	0.01
C59	ECEA1CKS470	47	C136	ECUV1H104MD	0.1
C60	PQCUV1H222MD	0.0022	C137	ECEA0JK221	220
C61	PQCUV1H153MD	0.015	C139	PQCUV1H152MD	0.0015
C62	PQCUV1E473MD	0.047	C140	PQCUV1E104ZF	0.1
C63	PQCUV1H101JC	100P	C141	PQCUV1H472MD	0.0047
C64	ECEA1CKS100	10	C143	ECKD1H152KB	0.0015
C65	ECBC1C103MY	0.01	C144	ECEA0JK221	220
C66	PQCUV1H103MD	0.01	C146	ECEA1AU221	220
C68	ECUV1H104MD	0.1	C147	ECEA1AU221	220
			C149	PQCUV1H103MD	0.01

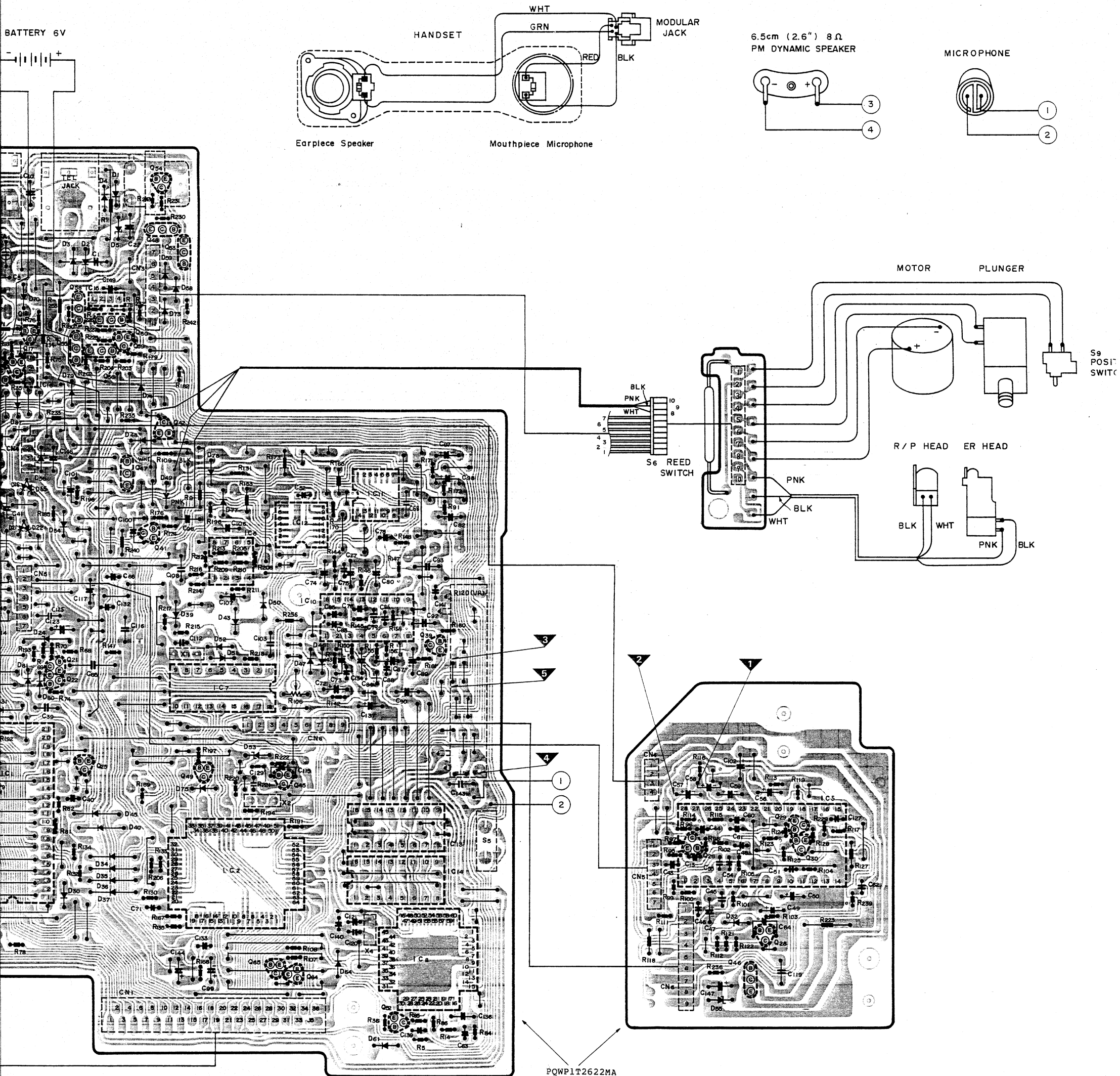
CIRCUIT BOARD AND WIRING CONNE
(Component View)



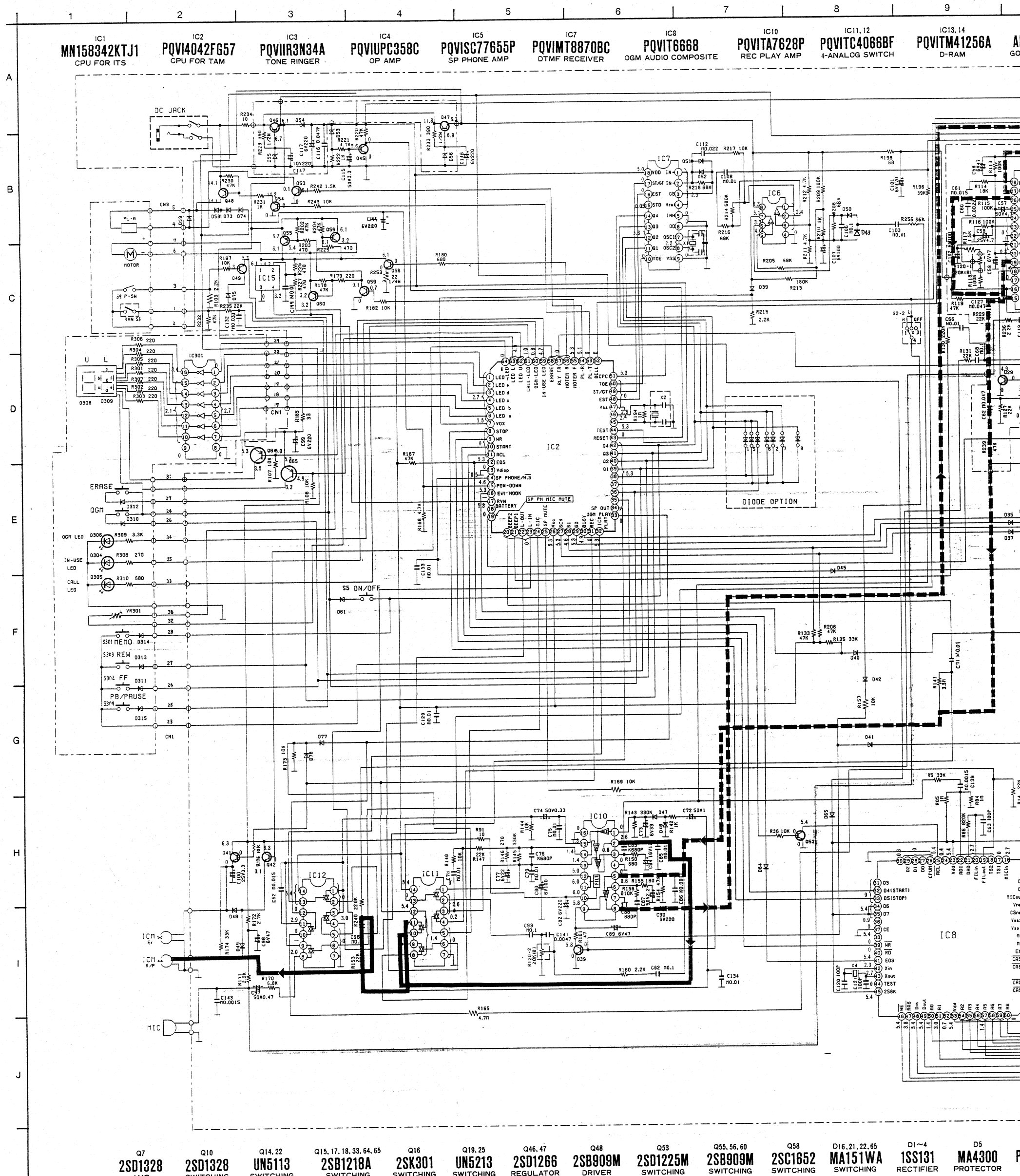
BOARD AND WIRING CONNECTION DIAGRAM

(Component View)

8 9 10 11 12 13 14 15 16



SCHEMATIC DIAGRAM



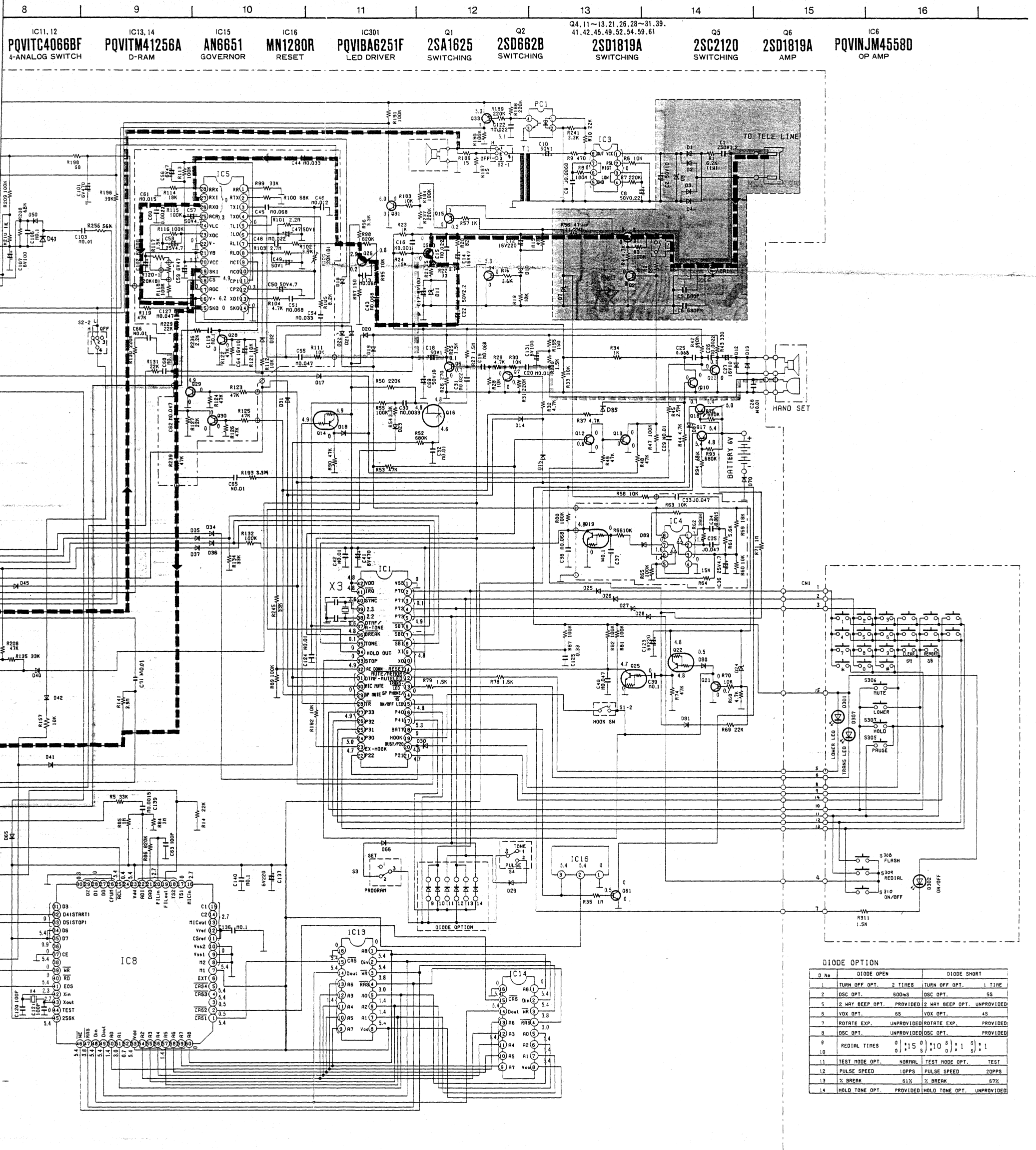
Notes:

1. S1: Hook switch in "On-Hook" position.
2. S2: Ring switch in "HIGH" position.
3. S3: Memory switch in "PROGRAM" position.
4. S4: Tone/Pulse switch in "TONE" position.
5. S5: Answer system On/Off switch.
6. S6: Reed switch.
7. S7: Clear switch.
8. S8: Memory switch.
9. S9: Position switch.
10. S301: Memo switch.
11. S302: Fast Forward switch.
12. S303: Rewind switch.
13. S304: Playback/Pause switch.
14. S305: Pause switch.
15. S306: Mute switch.
16. S307: Hold switch.

17. S308: Flash switch.
18. S309: Redial switch.
19. S310: Speakerphone switch.
20. DC voltage measurement are taken with electronic voltmeter from negative line. (ICM Playback Position)

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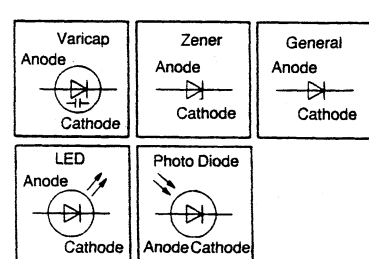
HEMATIC DIAGRAM



DIODE OPTION

D No	DIODE OPEN	DIODE SHORT
1	TURN OFF OPT. 2 TIMES	TURN OFF OPT. 1 TIME
2	OSC OPT. 500ms	OSC OPT. 5S
5	2 WAY BEEP OPT. PROVIDED	2 WAY BEEP OPT. UNPROVIDED
6	VOX OPT. 5S	VOX OPT. 4S
7	ROTATE EXP. UNPROVIDED	ROTATE EXP. PROVIDED
8	OSC OPT. UNPROVIDED	OSC OPT. PROVIDED
9	REDIAL TIMES 0 1 5 0 1 0 5 0 1 0 5 0 1	
10	TEST MODE OPT. NORMAL	TEST MODE OPT. TEST
12	PULSE SPEED 10PPS	PULSE SPEED 20PPS
13	% BREAK 51%	% BREAK 57%
14	HOLD TONE OPT. PROVIDED	HOLD TONE OPT. UNPROVIDED

Important safety notice
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.



This schematic diagram may be modified at any time with the development of new technology.

- Speakerphone Incoming Signal
- Speakerphone Outgoing Signal
- Handset Outgoing Signal
- Handset Incoming Signal
- ICM Recording Signal

Service Manual

AUTO-LOGIC™

EASA-PHONE®

ITS Integrated
Telephone System

Telephone Equipment

KX-T2622-B

(Black)
(Ash White)

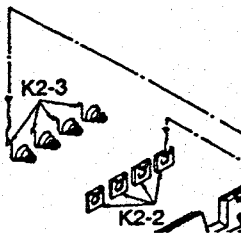
- Please use this manual together with the service manual for model No. KX-T2622, order No. KM48611397C1.
- This Service Manual indicates the main differences between; Original KX-T2622 and KX-T2622-B.

Panasonic EASA-PHONE MODEL NO. KX-T2622 TELEPHONE EQUIPMENT POWER SOURCE DC IN 12V (USE Panasonic AC ADAPTOR KX-A11 ONLY.) Matsushita Electric Industrial Co., Ltd. Made in Japan Complies With Part 68, FCC Rules FCC Registration Number ACJ96N-72641-MT-E Ringer Equivalence 1.0B	Panasonic EASA-PHONE (A) MODEL NO. KX-T2622 TELEPHONE EQUIPMENT POWER SOURCE DC IN 12V (USE Panasonic AC ADAPTOR KX-A11 ONLY.) Matsushita Electric Industrial Co., Ltd. Made in Japan Complies With Part 68, FCC Rules FCC Registration Number ACJ96N-72641-MT-E Ringer Equivalence 1.0B	Panasonic EASA-PHONE (B) MODEL NO. KX-T2622 TELEPHONE EQUIPMENT POWER SOURCE DC IN 12V (USE Panasonic AC ADAPTOR KX-A11 ONLY.) Matsushita Electric Industrial Co., Ltd. Made in Japan Complies With Part 68, FCC Rules FCC Registration Number ACJ96N-72641-MT-E Ringer Equivalence 1.0B
(Model KX-T2622)	(Model KX-T2622-A)	(Model KX-T2622-B)

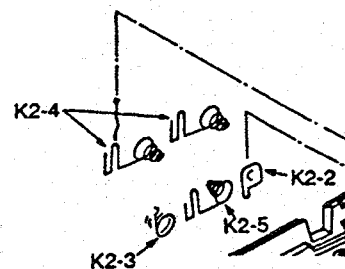
1. The model KX-T2622-B, have a mark (B) behind the Model No. on the name plate shown in figure above.
2. There are 3 types of model KX-T2622, such as KX-T2622, KX-T2622-A and the KX-T2622-B.
3. Please use this manual for model KX-T2622-B.

CHANGES

■ CABINET AND ELECTRICAL PARTS LOCATION



(Model KX-T2622)



(Model KX-T2622-B)

Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii Inc.
91-238 Kauhū St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De Infantería, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

REPLACEMENT PARTS LIST

Model KX-T2622-B

Notes:

1. Important safety notice.
Components identified by the Δ mark special characteristics important for safety.
when replacing any of these components, use only manufacture's specified parts.
2. The S mark indicates service standard parts and may differ from production parts.
3. RESISTORS & CAPACITORS
Unless otherwise specified.
All resistors are in ohms (Ω) k=1000 Ω , M=1000k Ω
All capacitors are in MICRO FARADS (μ F) P= μ F
*Type & Wattage of Resistor
Type

ERC:Solid	ERX:Metal Film	ERDS,PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fusible Resistor
RRD:Chip	ERO:Metal Film	PQ4R:Chip

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
------------	------------	---------	------	------	------

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,PQCB,ECBC : Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE : Polyester
ECB8X,ECUV,PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECMS:Mica	EECW : Electric Double Layer

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H:50V	05:50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs
MECHANICAL PARTS			
M1	PQFM9909Z	Motor Ass'y (with Pulley)	1
M2	PQFD9904Z	Pinch Roller Ass'y	1
M3	PQFF9908Z	Flywheel Ass'y	1
M4	PQFR9906Z	Takeup Reel Table Ass'y	1
M5	PQFR9907X	Supply Reel Table Ass'y	1
M6	PQFD9906Z	Operation Plate	1
M7	PQFS69Z	Spring	1
M8	PQFS68Z	Spring	1
M9	PQFD57Z	Head Base Plate	1
M10	PQFW25Z	Head Base	1
M11	PQJH1M2Z	R/P Head	1
M12	PQJH6M2Z	Erase Head	1
M13	PQFS73Z	Spring	1
M14	PQFS70Z	Spring	1
M15	PQFJ1Z	Terminal	1
M16	PQFC9904X	Mechanism Chassis Ass'y	1
M17	PQFI14Z	Rubber, Motor	2
M18	PQFZ9902X	Reed Switch P.C.Board Ass'y	1
M19	PQJP10G38Z	Connector, 10Pin	1
M20	PQSE75Z	Reed Switch (S6)	1
M21	PQSH1A17Y	Head Position Switch (S9)	1
M22	PQFD64Z	Spring	1
M23	PQFS82Z	Spring	2
M24	PQFW32Z	Cam	1
M25	PQFS100Z	Spring	1
M26	PQFW33Z	Cap	1
M27	PQFP122Z	Plunger	1
M28	PQHD15Z	Screw	2
M29	PQFN34Z	Washer	1
M30	PQFN35Z	Washer	1
M31	PQFN33Z	Washer	1
M32	PQFB12Z	Belt	1
M33	XUC15FY	Stop Ring	1
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES			
IC1	MN158342KTJ1	IC	1
IC2	PQVI4042FG57	IC	1
IC3	PQVIIR3N34A	IC	1

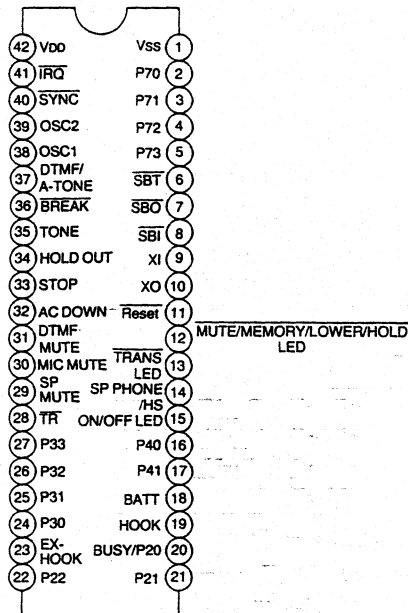
Ref. No.	Part No.	Part Name & Description	Pcs
IC4	PQVIUPC358C	IC	1
IC5	PQVISC77655P	IC	1
IC6	PQVINJM4558D	IC	1
IC7	PQVIMT8870BC	IC	1
IC8	PQVIT6668	IC	1
IC10	PQVITA7628P	IC	1
IC11,12	PQVITC4066BF	IC	2
IC13,14	PQVITM41256A	IC	2
IC15	AN6651	IC	1
IC16	MN1280R	IC	1
IC301	PQVIBA6251F	IC	1
Q1	2SA1625	Transistor (Si)	1 Δ
Q2	2SD662B	Transistor (Si)	1
Q4,6,	2SD1819A	Transistor (Si)	20
11-13,			
21,26,			
28-31,			
39,41,			
42,45,			
49,52,			
54,59,			
61			
Q5	2SC2120	Transistor(Si)	1
Q7	2SD1328	Transistor(Si)	1
Q10	2SC1623	Transistor(Si)	1
Q14,22	UN5113	Transistor(Si)	2
Q15,17	2SB1218A	Transistor(Si)	6
18,33,			
64,65			
Q16	2SK301	Transistor(Si)	1
Q19,25	UN5213	Transistor(Si)	2
Q46,47	2SD1266	Transistor(Si)	2
Q48,55,	2SB909M	Transistor(Si)	4
56,60			
Q53	2SD1225M	Transistor(Si)	1
Q58	2SC1652	Transistor(Si)	1
D1-4,	1SS131	Diode (Si)	48 Δ
10,12,			
13,14,			
17,18,			
23,25-			
30,32,			
39,43,			
46-52,			
54,58,			
59,61,			
64,66,			
73,75,			
77,78,			
80,81,			
85,87,			
89,310-			
315			
D5	MA4300	Diode(Si)	1 Δ
D6	PQVDS1YB40F1	Diode(Si)	1
D7	MA4180	Diode(Si)	1 Δ
D11	MA7051	Diode(Si)	1 Δ
D15,19,	1S2076	Diode(Si)	12
20,31,			
34-37,			
40,42,			
45,74			
D24	PQVDHZ2CLL02	Diode(Si)	1 Δ
D41,70	MA700	Diode(Si)	2
D55,56	PQVDMTZ6R8	Diode(Si)	2
D301,	PQVDSLPL181B	LED	3
302,			
306			
D304	PQVDSLPL251B	LED	1
D305	PQVDSLPL151B	LED	1
D307	LN222RPH	LED	1
D308,	PQVDLA301YB	LED	2
309			
D308,	PQVDLA301	LED	2
309			
D16,21,	MA151WA	Diode (Si)	2
22,65			

Ref. No.	Part No.	Part Name & Description	Pcs
SWITCHES			
S1	PQSH1B12Y	Switch, Hook	1 Δ
S2	PQSS3B10Z	Switch, Ring (for Black)	1
S2	PQSS3B10Y	Switch, Ring (for Ash White)	1
S3,4	PQSS2A27Z	Switch, Memory etc. (for Black)	2
S3,4	PQSS2A27Y	Switch, Memory etc. (for Ash White)	2
S5	EVQ-QBH08T	Switch, Answer System On/Off	1
S301, 302, 303	EVQ-QS205K	Switch, Memo, Rewind, Fast Forward	3
JACKS			
J1	PQJ1B3Z	Jack, DC IN	1
J2	PQJ1TA9Z	Jack, Telephone Line	1 Δ
J3	PQJ1TB10Z	Jack, Handset	1
TRANSFORMER			
T1	PQLT2D3A	Transmission Transformer	1
VARIABLE RESISTORS			
R106	PQNB3A00B24M	Semi-Fixed Resistor, 20k Ω (B)	1
R120	PQVAM0A14B24	Volume Control, 20k Ω (B)	1
VR301	EVNK4AA00B13	Semi-Fixed Resistor, 1k Ω (B)	1
OTHERS			
X1,3	PQVBF3584A1	Ceramic Filter	2
X2	PQVBF34004A3	Ceramic Filter	1
X4	PQVBKBR655B	Ceramic Filter	1
SA1	PQVDSAE310	Varistor (Surge Absorber)	1 Δ
PC1	PQVJL5151DA	Electric Transducer	1
CABINET PARTS			
K1	PQYMT2622MB	Upper Cabinet Ass'y (for Black)	1
K1	PQYMT2622MB8	Upper Cabinet Ass'y (for Ash White)	1
K1-1	PQBCX28Y2	Button, Memo etc. (for Black)	1
K1-1	PQBCX28Y1	Button, Memo etc. (for Ash White)	1
K2	PQYFT2622MB	Lower Cabinet Ass'y (for Black)	1
K2	PQYFT2622MB8	Lower Cabinet Ass'y (for Ash White)	1
K2-1	RHG1028Z	Rubber, Leg	2
K2-2	RJC314A	Battery Terminal, (+) Side	1
K2-3	PQJC707Z	Battery Terminal, (-) Side	1
K2-4	PQJC922Z	Battery Terminal, (+)(-) Side	2
K2-5	PQJC923Z	Battery Terminal, (+)(-) Side	1
K3	PQYQT2622M	Cassette Lid Ass'y (for Black)	1
K3	PQYQT2622MA7	Cassette Lid Ass'y (for Ash White)	1
K4	PQBCX31Z2	Button, Key Station (for Black)	1
K4	PQBCX31Z1	Button, Key Station (for Ash White)	1
K5	PQBC131Y	Button, Answer On/Off (for Black)	1
K5	PQBC131Y1	Button, Answer On/Off (for Ash White)	1
K6	PQBC133Y0	Button, Playback (for Black)	1
K6	PQBC133Y1	Button, Playback (for Ash White)	1
K7	PQBD71Z	Knob, Volume Control (for Black)	1
K7	PQBD71Z1	Knob, Volume Control (for Ash White)	1
K8	PQHP532V	Telephone Card (for Black)	1
K8	PQHP352X	Telephone Card (for Ash White)	1
K9	PQHP560X	Telephone Card (for Black)	1
K9	PQHP560W	Telephone Card (for Ash White)	1
K10	PQHR576Z	Transparent Plate	1
K11	PQHR9163Z	Transparent Plate	1
K12	PQKE32X2	Handset Holder (for Black)	1
K12	PQKE32X3	Handset Holder (for Ash White)	1
K13	PQKK34Z0	Battery Cover (for Black)	1
K13	PQKK34Z8	Battery Cover (for Ash White)	1
K14	PQUS65Z	Spring, Handset Holder	1
ELECTRICAL PARTS			
E1	RJM142Z	Microphone	1

Ref. No.	Part No.	Part Name & Description		Pcs	
E2	PQHG503Z	Rubber Parts, Microphone		1	
E3	PQUL49Z	Bracket, Microphone		1	
E4	PQAS65P10Z	Speaker, 6.5cm(2.6")		1	
E5	PQJE51Z	Flat Cable		1	
E6	PQJS36X31Z	Connector, 36Pin		1	
E7	PQJS10L31Z	Connector, 10Pin		1	
E8	PQJS36X30Z	Connector, 36Pin		1	
E9	PQHR440Z	LED Spacer		4	
E10	PQSE62Y	12Key Switch	(for Black).	1	
E10	PQSE62X	12Key Switch	(for Ash White)	1	
E11	PQSE63Z2	2Key Switch	(for Black)	1	
E11	PQSE63Y	2Key Switch	(for Ash White)	1	
E12	XWG3F13	Washer		1	
E13	PQJP9D58Z	Connector, 9Pin (Refer to Fig.1)		1	
E14	PQJS9B30Z	Connector, 9Pin (Refer to Fig.1)		1	
HANDSET PARTS					
H1	PQJX2PM201X	Handset Ass'y	(for Black)	1	
H1	PQJX2PN203Y	Handset Ass'y	(for Ash White)	1	
H1-1	PQKM36L	Lower Cabinet	(for Black)	1	
H1-1	PQKM36J8	Lower Cabinet	(for Ash White)	1	
H1-2	PQKF34X	Upper Cabinet	(for Black)	1	
H1-2	PQKF34W8	Upper Cabinet	(for Ash White)	1	
H1-3	PQJE47Z	Earpiece Speaker		1	
H1-4	PQHR9101Z	Cushion		1	
H1-5	PQJM110Z	Mouthpiece Microphone		1	
H1-6	PQUL59Z	Weight		1	
H1-7	PQHG417Z	Rubber Cap	(for Black)	2	
H1-7	PQHG402Z	Rubber Cap	(for Ash White)	2	
H1-8	PQHG412Z	Rubber Spacer		2	
ACCESSORIES					
A1	KX-A11	AC Adaptor		1 	
A2	PQJA30V	Handset Cord	(for Black)	1	
A2	PQJA30R	Handset Cord	(for Ash White)	1	
A3	PQJA59Y	Telephone Cord		1	
A4	RT-N60-JT1P	Micro Cassette (MC-60)		1	
A5	PQKL13Z0	Wall Mount Bracket	(for Black)	1	
A5	PQKL13Z1	Wall Mount Bracket	(for Ash White)	1	
A6	PQOX1301Z	Dial Card		1	
A7	PQOX5334Y	Instruction Book		1	
PACKING MATERIALS					
P1	XZB26X40A01	Polyethylene Cover		1	
P2	PQPH70Z	Protection Cover		1	
P3	PQPN657Z	Pad		1	
P4	PQPN903Z	Pad		1	
P5	PQPK427X	Gift Box	(for Black)	1	
P5	PQPK528Y	Gift Box	(for Ash White)	1	
Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS					
R1	PQRD1TJ622	6.2k 	R22	PQ4R10XJ330	33
R2	PQ4R10XJ683	68k 	R23	PQ4R10XJ102	1k
R3	PQ4R10XJ104	100k 	R24	PQ4R10XJ153	15k
R4	PQ4R10XJ472	4.7k 	R25	PQ4R10XJ152	1.5k
R5	PQ4R10XJ333	33k	R26	PQ4R10XJ271	270
R6	PQ4R10XJ103	10k	R27	PQ4R10XJ155	1.5M
R7	PQ4R10XJ224	220k	R28	PQ4R10XJ103	10k
R8	PQ4R10XJ184	180k	R29	PQ4R10XJ472	4.7k
R9	PQ4R10XJ471	470	R30	PQ4R10XJ103	10k
R10	PQ4R10XJ223	22k	R31	PQ4R10XJ224	220k
R14	PQ4R10XJ223	22k	R32	PQ4R10XJ472	4.7k
R15	PQ4R10XJ473	47k	R33	PQ4R10XJ103	10k
R16	PQ4R10XJ562	5.6k	R34	PQ4R10XJ102	1k
R19	PQ4R10XJ103	10k	R35	PQ4R10XJ105	1M
R20	PQ4R10XJ821	820	R36	PQ4R10XJ103	10k
R21	PQ4R10XJ150	15	R37	PQ4R10XJ472	4.7k

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R42	PQ4R10XJ394	390k	R134	PQ4R10XJ333	33k	R234	PQRQ2AJ100	10	R256	ERD16TJ563	56k
R43	PQ4R10XJ331	330	R135	PQ4R10XJ333	33k	R235	PQ4R10XJ223	22k	R301	ERD10TLJ221	220
R44	ERD25TJ472	4.7k	R141	PQ4R10XK825	8.2M	R236	PQ4R10XJ222	2.2k	R302	ERD10TLJ221	220
R45	PQ4R10XJ275	2.7M	R142	PQ4R10XJ102	1k	R237	PQ4R10XJ224	220k	R303	ERD10TLJ221	220
R47	PQ4R10XJ104	100k	R143	PQ4R10XJ334	330k	R238	PQ4R10XJ152	1.5k	R304	ERD10TLJ221	220
R48	PQ4R10XJ473	47k	R144	PQ4R10XJ103	10k	R239	PQ4R10XJ473	47k	R305	ERD10TLJ221	220
R49	PQ4R10XJ473	47k	R145	PQ4R10XJ334	330k	R240	PQ4R18XJ224	220k	R306	ERD10TLJ221	220
R50	PQ4R10XJ224	220k	R146	PQ4R10XJ271	270	R241	PQ4R10XJ332	3.3k	R307	ERD10TLJ221	220
R52	PQ4R10XJ684	680k	R147	PQ4R10XJ223	22k	R242	PQ4R10XJ152	1.5k	R308	ERD10TLJ151	150
R53	ERD16TJ473	47k	R148	PQ4R10XJ103	10k	R243	PQ4R10XJ103	10k	R309	ERD10TLJ332	3.3k
R54	PQ4R10XJ332	3.3k	R150	PQ4R10XJ681	680	R245	PQ4R10XJ333	33k	R310	ERD10TLJ102	1k
R55	PQ4R10XJ104	100k	R151	PQ4R10XJ105	1M	R253	ERD25TJ220	22	R311	ERD10TLJ152	1.5k
R56	ERDS1TJ820	82	R152	ERD25TJ105	1M	CAPACITORS					
R57	PQ4R10XJ102	1k	R153	ERD16TJ223	22k	C1	ECQE2125KZ	1.2	C71	PQCUV1H103MD	0.01
R58	PQ4R10XJ103	10k	R154	PQ4R10XJ473	47k	C2	ECEA1HU100	10	C72	ECEA1HKS010	1
R59	PQ4R10XJ183	18k	R155	PQ4R10XJ181	180	C5	ECKD2H681KB	680P	C73	ECEA1VU330	33
R60	PQ4R10XJ103	10k	R156	PQ4R10XJ103	10k	C6	ECKD2H681KB	680P	C74	ECEA1HUR33	0.33
R61	PQ4R10XJ562	5.6k	R157	PQ4R10XJ103	10k	C8	ECEA1HKS022	0.22	C75	PQCUV1H103MD	0.01
R62	PQ4R10XJ394	390k	R160	PQ4R10XJ222	2.2k	C9	ECQM1H682JV	0.0068	C76	PQCUV1H681KC	680P
R63	PQ4R10XJ103	10k	R161	PQ4R10XJ470	47	C10	ECEA1HKS010	1	C77	ECEA1HU220	22
R64	PQ4R10XJ153	15k	R165	ERD16TJ475	4.7M	C12	ECEA1CU221	220	C78	PQCUV1H103MD	0.01
R65	PQ4R10XJ104	100k	R167	PQ4R10XJ473	47k	C13	PQCUV1C683MD	0.068	C79	PQCUV1H103MD	0.01
R66	PQ4R10XJ103	10k	R168	PQ4R10XJ472	4.7k	C14	ECEA1EU470	47	C80	ECEA1AU101	100
R68	PQ4R10XJ472	4.7k	R169	PQ4R10XJ103	10k	C15	PQCUV1H223MD	0.022	C82	ECEA1AU221	220
R69	PQ4R10XJ223	22k	R170	PQ4R10XJ682	6.8k	C16	PQCUV1H102MD	0.001	C83	PQCUV1H681KC	680P
R70	PQ4R10XJ103	10k	R171	PQ4R10XJ222	2.2k	C17	ECEA1AU101	100	C84	ECEA1CKS100	10
R71	ERD16TJ105	1M	R172	PQ4R10XJ272	2.7k	C18	ECEA1HKS010	1	C85	PQCUV1H103MD	0.01
R74	PQ4R10XJ473	47k	R173	PQ4R18XJ103	10k	C19	PQCUV1C683MD	0.068	C86	PQCUV1H102MD	0.001
R76	PQ4R10XJ684	680k	R174	PQ4R10XJ333	33k	C20	PQCUV1H103MD	0.01	C87	ECEA1HKS2R2	2.2
R78	PQ4R10XJ152	1.5k	R176	PQ4R10XJ103	10k	C22	ECEA1HU2R2	2.2	C88	PQCUV1H681KC	680P
R79	PQ4R10XJ152	1.5k	R178	PQ4R10XJ473	47k	C25	PQCUV1C683MD	0.068	C89	ECEA1EU470	47
R81	PQ4R10XJ104	100k	R179	PQ4R10XJ221	220	C26	PQCUV1H222MD	0.0022	C90	ECEA1AU221	220
R82	PQ4R10XJ104	100k	R180	PQ4R10XJ681	680	C27	ECEA1CKS100	10	C92	ECUV1H104MD	0.1
R84	PQ4R10XJ105	1M	R182	PQ4R10XJ103	10k	C28	PQCUV1H103MD	0.01	C93	ECUV1H104MD	0.1
R85	PQ4R10XJ105	1M	R183	PQ4R10XJ103	10k	C29	PQCUV1H103MD	0.01	C96	ECUV1H104MD	0.1
R86	PQ4R10XJ824	820k	R184	PQ4R10XJ104	100k	C30	PQCUV1H332MD	0.0033	C97	ECEA1HUR47	0.47
R87	PQ4R10XJ104	100k	R185	PQ4R10XJ330	33	C31	PQCUV1H223MD	0.022	C98	ECEA1EU470	47
R88	PQ4R10XJ104	100k	R186	PQ4R10XJ150	15	C32	PQCUV1H103MD	0.01	C99	ECEA0JK221	220
R89	PQ4R10XJ104	100k	R187	PQ4R10XJ150	15	C33	ECQV1H473JZ	0.047	C100	ECEA1HU3R3	3.3
R91	PQ4R10XJ100	10	R188	PQ4R10XJ224	220k	C34	ECQM1H152JV	0.0015	C101	ECEA0JU471	470
R93	PQ4R10XJ684	680k	R189	PQ4R10XJ224	220k	C35	ECQV1H473JZ	0.047	C102	ECEA1CK101	100
R94	PQ4R10XJ683	68k	R190	PQ4R10XJ104	100k	C36	ECEA1HK4R7	4.7	C103	ECUV1H103MD	0.01
R95	PQ4R10XJ103	10k	R191	PQ4R10XJ104	100k	C37	ECEA1HKS0R1	0.1	C106	ECUV1H104MD	0.1
R96	PQ4R10XJ332	3.3k	R193	PQ4R10XJ335	3.3M	C38	PQCUV1C683MD	0.068	C107	ECEA1AU101	100
R97	PQ4R10XJ151	150	R194	PQ4R10XJ105	1M	C39	ECUV1H104MD	0.1	C108	ECKD1H103MD	0.01
R98	PQ4R10XJ824	820k	R195	PQ4R10XJ151	150	C40	PQCUV1E473MD	0.047	C112	PQCUV1H223MD	0.022
R99	PQ4R10XJ333	33k	R196	PQ4R10XJ393	39k	C41	ECEA0JU471	470	C115	ECEA1HKS3R3	3.3
R100	PQ4R10XJ683	68k	R197	PQ4R10XJ103	10k	C42	PQCUV1H103MD	0.01	C116	ECEA0JU332	3300
R101	PQ4R10XJ225	2.2M	R198	PQ4R10XJ680	68	C43	PQCUV1C683MD	0.068	C119	ECUV1H104MD	0.1
R102	PQ4R10XJ392	3.9k	R202	PQ4R10XJ473	47k	C44	PQCUV1E333MD	0.033	C120	PQCUV1H101JC	100P
R103	PQ4R10XJ275	2.7M	R203	PQ4R10XJ471	47k	C45	PQCUV1C683MD	0.068	C121	PQCUV1H101JC	100P
R104	PQ4R10XJ472	4.7k	R204	PQ4R10XJ275	2.7k	C46	PQCUV1H223MD	0.022	C122	PQCUV1H223MD	0.022
R105	PQ4R10XJ822	8.2k	R205	PQ4R10XJ683	68k	C47	ECEA1HKS010	1	C123	ECEA1AU221	220
R107	PQ4R10XJ103	10k	R206	PQ4R10XJ473	47k	C48	PQCUV1H223MD	0.022	C124	PQCUV1H103MD	0.01
R108	PQ4R10XJ103	10k	R208	PQ4R10XJ683	68k	C49	ECEA1HKS010	1	C125	ECUV1H334ZF	0.33
R109	PQ4R10XJ222	2.2k	R209	PQ4R10XJ104	100k	C50	ECEA1VKS4R7	4.7	C127	PQCUV1E473MD	0.047
R111	PQ4R10XJ103	10k	R210	PQ4R10XJ102	1k	C51	PQCUV1C683MD	0.068	C129	PQCUV1H103MD	0.01
R112	PQ4R10XJ103	10k	R211	PQ4R10XJ472	4.7k	C52	PQCUV1H153MD	0.015	C131	ECEA1CK101	100
R113	PQ4R10XJ104	100k	R212	PQ4R10XJ472	4.7k	C54	PQCUV1E333MD	0.033	C132	PQCUV1E333MD	0.033
R114	PQ4R10XJ183	18k	R213	PQ4R10XJ184	180k	C55	PQCUV1E473MD	0.047	C133	PQCUV1H103MD	0.01
R115	PQ4R10XJ104	100k	R214	PQ4R10XJ684	680k	C56	ECEA0JKS470	47	C134	PQCUV1H103MD	0.01
R116	PQ4R10XJ104	100k	R215	PQ4R10XJ222	2.2k	C57	ECEA1HK4R7	4.7	C136	ECUV1H104MD	0.1
R117	PQ4R10XJ152	1.5k	R216	PQ4R10XJ683	68k	C58	ECEA1HK4R7	4.7	C137	ECEA0JK221	220
R118	ERD16TJ104	100k	R217	PQ4R10XJ103	10k	C59	ECEA1CKS470	47	C139	PQCUV1H152MD	0.0015
R119	PQ4R10XJ473	47k	R218	PQ4R10XJ683	68k	C60	PQCUV1H222MD	0.0022	C140	PQCUV1E104ZF	0.1
R121	PQ4R10XJ103	10k	R219	ERD16TJ104	100k	C61	PQCUV1H153MD	0.015	C141	PQCUV1H472MD	0.0047
R122	PQ4R10XJ473	47k	R220	PQ4R10XJ473	47k	C62	PQCUV1E473MD	0.047	C143	ECKD1H152KB	0.0015
R123	PQ4R10XJ473	47k	R222	PQ4R10XJ183	18k	C63	PQCUV1H101JC	100P	C144	ECEA0JK221	220
R124	PQ4R10XJ473	47k	R223	ERDS1TJ391	390	C64	ECEA1CKS100	10	C145	PQCUV1H103MD	0.01
R125	PQ4R10XJ473	47k	R225	PQ4R10XJ471	470	C65	ECBC1C103MY	0.01	C146	ECEA1AU221	220
R126	PQ4R10XJ473	47k	R226	PQ4R10XJ471	470	C66	PQCUV1H103MD	0.01	C147	ECEA1AU101	100
R127	ERD16TJ223	22k	R227	PQ4R10XJ331	330	C68	ECUV1H104MD	0.1	C149	PQCUV1H103MD	0.01
R129	PQ4R10XJ224	220k	R229	PQ4R10XJ223	22k	C69	ECEA1HU100	10			
R130	PQ4R10XJ224	220k	R230	PQ4R10XJ473	47k						
R131	PQ4R10XJ223	22k	R231	PQ4R10XJ102	1k						
R132	PQ4R10XJ104	100k	R232	PQ4R10XJ473	47k						
R133	PQ4R10XJ473	47k	R233	PQRD12VJ391	390						

CPU DATA



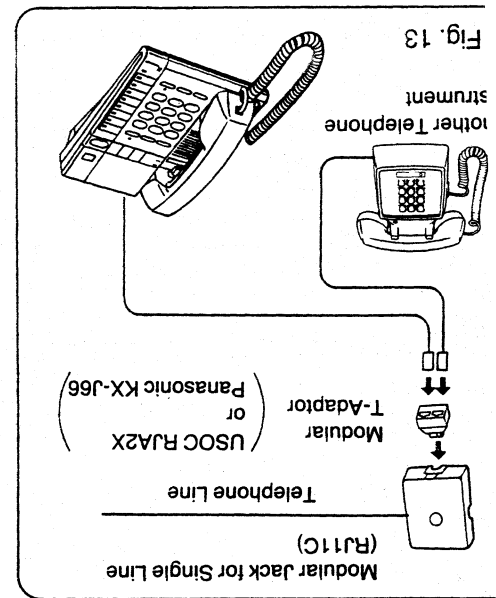
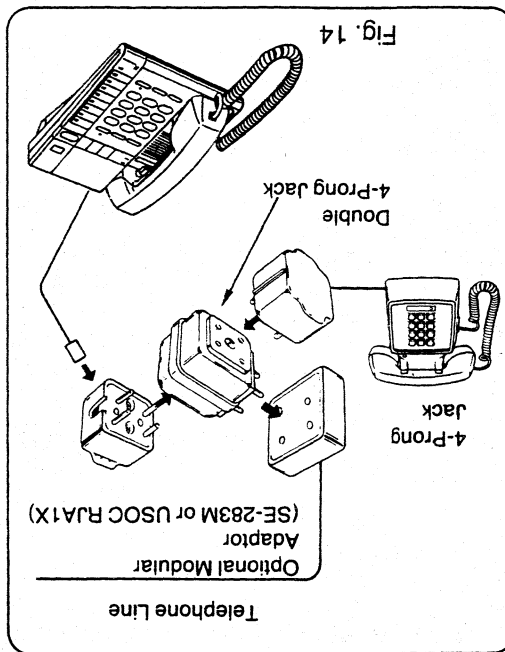
IC1 MN158342KTJ

Program ROM: 3K byte (4 bit)
Internal RAM: 5K bit
Clock Frequency: 3.58 MHz
Power Supply Voltage: 2.5–5.5 V

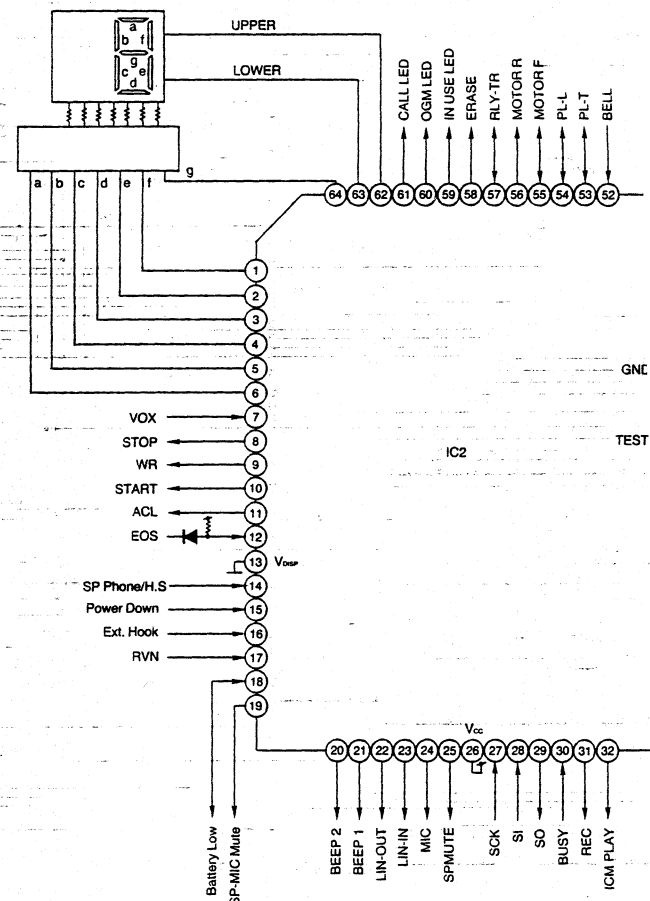
Pin No.	Function	High	Low
1	GND Terminal		
2	Key-Scan Output		
3	Key-Scan Output		
4	Key-Scan Output	Usually	Active
5	Key-Scan Output		
6	Serial Clock		
7	Serial Data Output		
8	Serial Data Input		
9			
10			
11	System Reset Signal Input		
12	LED Control Output	OFF	ON
13	Transfer LED Control Output		
14	SP-Phone/Handset Control Output	SP-Phone	Handset
15	SP-Phone ON/OFF LED Control Output	OFF	ON
16	Option Data Input	Usually	Active
17	Option Data Input		
18	DRAM Battery Control Input	Disable	Enable
19	Hook Switch Control Input		
20	Key-Scan Output	Usually	Active
21	Key-Scan Output		
22	Key-Scan Output		
23	Ex-Hook Control Input	OFF Hook	ON Hook
24	Key Input		
25	Key Input	Disable	Enable
26	Key Input		
27	Key Input		
28	Hold Control Output	Circuit OFF	Circuit ON
29	Speaker Mute Control Output	ON	OFF
30	Mic Mute Control Output		
31	DTMF Mute Control Output		
32	AC Power Detect Input	AC Power ON	AC Power OFF
33	Stop Signal Input	Stop	Enable
34	Hold Out Control Output	Usually	Active
35	Tone Detect Signal Input	Enable	Disable
36	Pulse Dial Output	OFF	ON
37	DTMF Signal, Audible Tone Output		
38	System Clock		
39	System Clock		
40	System Clock		
41			
42	⊕ Power Source Terminal		

● This unit may not be connected to a coin operated line.

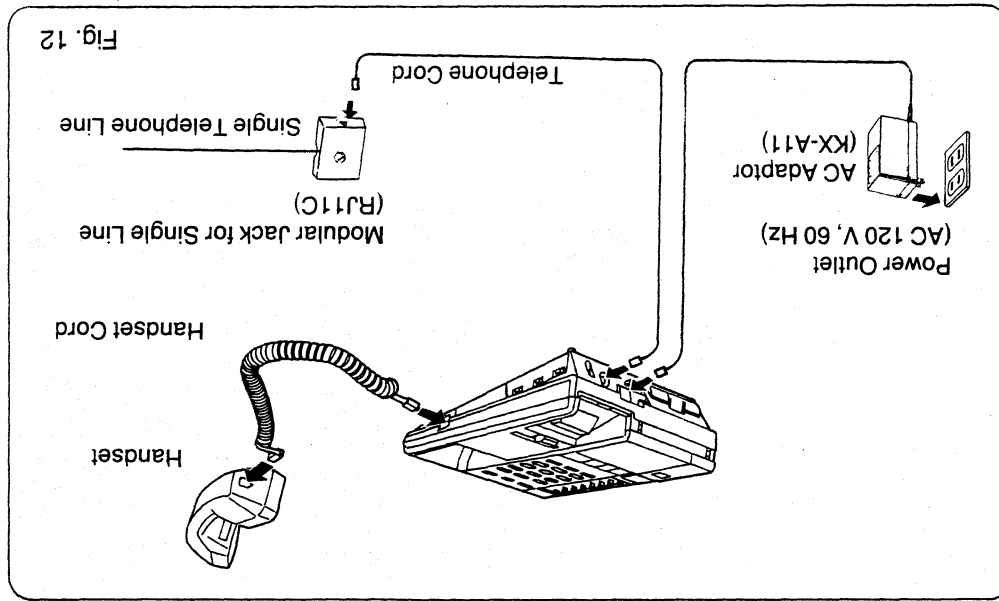
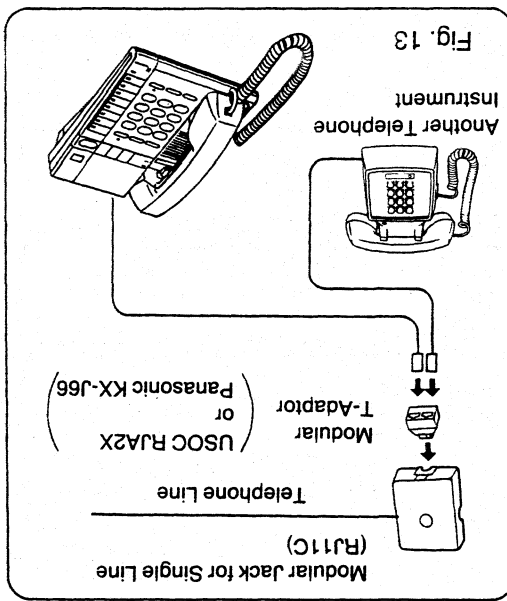
4-Prong Plug and Jack



you wish to share a modular jack:



Pin No.	Function	High	Low	Pin N
1	Segment f			33
2	Segment e			34
3	Segment d	On	Off	35
4	Segment c			36
5	Segment b			37
6	Segment a			38
7	Vox			39
8	Stop	Stop		40
9	WR (Write Read)	Record	Play	41
10	Start	Start		42
11	ACL (ALL Clear)	ALC		43
12	EOS (End of Speech)	EOS		44
13	Ground			45
14	Speakerphone/Handset	Speakerphone	Handset	46
15	Power Down	Power On	Power Off	47
16	Ext. Hook	Off Hook	On Hook	48
17	Reed Switch	Off	On	49
18	Battery Low	Usual		50
19	Speaker Mic Mute	Mute On	Speakerphone Mic On	51
20	Beep 2			52
21	Beep 1			53
22	Line-Out	On	Does not Output	54
23	Line-In		Does not Input	55
24	Microphone		Mic Off	56
25	Speaker Mute	Speaker Off	Speaker On	57
26	(+) Power Supply Terminal			58
27	Ext. Clock			59
28	Signal Data Input			60
29	Signal Data Output			61
30	Busy		Busy	62
31	Record	On	Off	63
32	Play			64



● If you wish to share a modular jack:

CONNECTION TO A TELEPHONE LINE

ADJUSTMENTS

Perform the following adjustment after replacing IC5 and VR106.

Test Equipment:

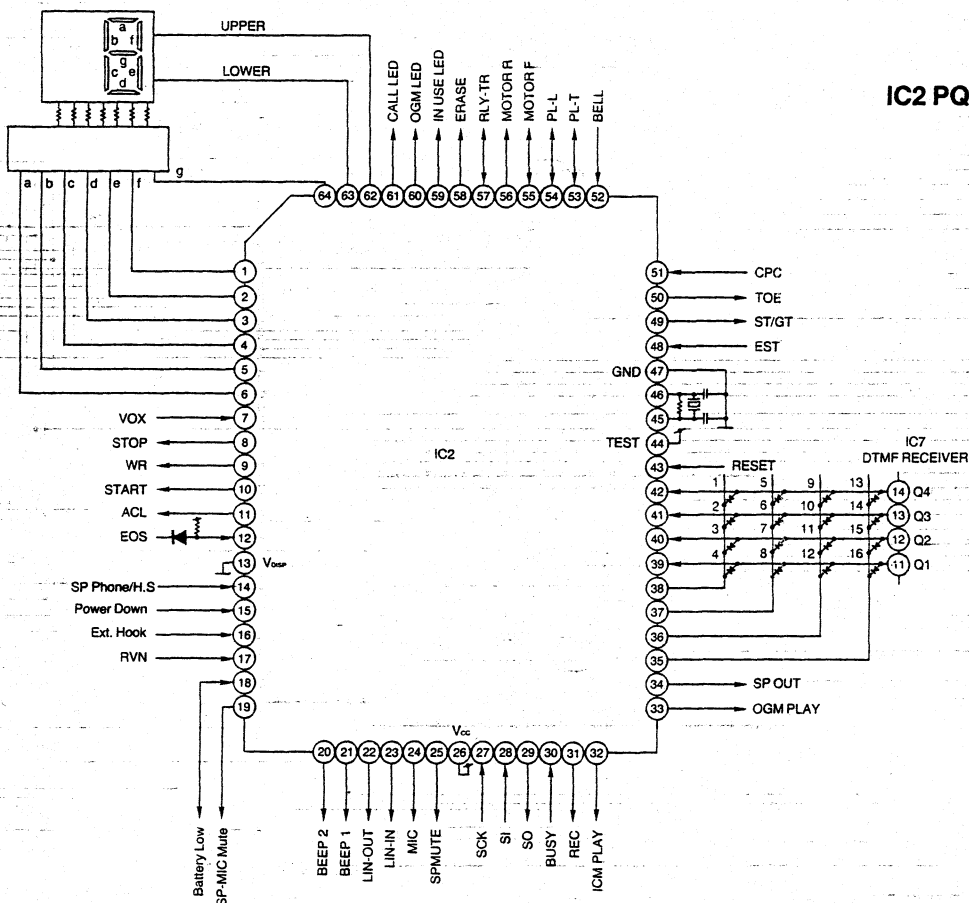
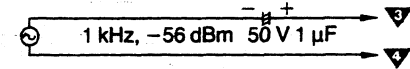
Loop Simulator
RC Oscillator
VTVM

Preparation:

- Set the unit's controls as follows:
A. SP-PHONE SWITCH—"ON"
B. MUTE SWITCH—"OFF"
C. VOLUME CONTROL—"MAX"
- Connect Test Points ∇ - ∇ , and disconnect Test Points ∇ - ∇ .
- Set the variable resistor of the loop simulator to maximum resistance (fully counterclockwise).
- Connect the unit to the loop simulator.
- Make all adjustments in a quiet room.
- After all adjustments are made, disconnect Test Points ∇ - ∇ , and connect Test points ∇ - ∇ .

Transmission Level:

- Set the loop simulator selector switch to "TX".
- Connect the RC Oscillator to Test Point ∇ (-)- ∇ (+), and connect an electrolytic capacitor (50 V, 1 μ F) as shown below.
- Set RC Oscillator to 1 kHz, -56 dBm.
- Connect the VTVM to loop simulator.
- Adjust VR106 for a reading of -20 dBm, ± 0.5 dB, on the VTVM.



IC2 PQVI4042FF95

Function	High	Low	Pin No.	Function	High	Low
Segment f	On	Off	33	OGM Play	On	Off
Segment e			34	Speaker Out		
Segment d			35	Key Strobe	Off	On
Segment c			36	Key Strobe		
Segment b			37	Key Strobe		
Segment a			38	Key Strobe		
Vox	Stop	Play	39	Key Input	On	Off
Stop			40	Key Input		
WR (Write Read)			41	Key Input		
Start			42	Key Input		
ACL (ALL Clear)			43	Reset		
EOS (End of Speech)	EOS		44	Test	Vcc	
Ground			45	System Clock Oscillator 1	On	Off
Speakerphone/Handset	Speakerphone	Handset	46	System Clock Oscillator 2		
Power Down	Power Off	Power On	47	Ground		
Ext. Hook	Off Hook	On Hook	48	Remote Data		
Reed Switch	Off	On	49	Remote Data	On	Off
Battery Low	Usual		50	TOE	Enable	Disable
Speaker Mic Mute	Mute On	Speakerphone Mic On	51	CPC		
Beep 2	On	Does not Output	52	Bell	On	Off
Beep 1			53	Plunger Trigger		
Line-Out			54	Plunger Latch		
Line-In			55	Forward Rotation		
Microphone			56	Revers Rotation		
Speaker Mute	Speaker Off	Speaker On	57	Relay-TR		
(+) Power Supply Terminal	On	Off	58	Erase		
Ext. Clock			59	IN Use LED		
Signal Data Input			60	OGM LED		
Signal Data Output			61	Call LED		
Busy			62	Upper		
Record	On	Off	63	Lower	Off	On
Play			64	Segment g	On	Off

Please refer to Circuit Board and wiring Connection Diagram which is located test points (∇).

Schematic Diagram of Loop Simulator

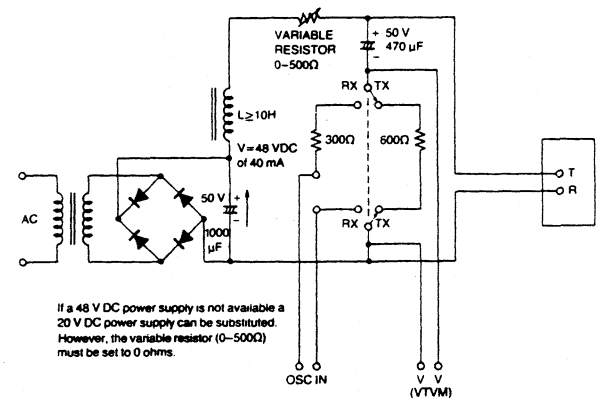
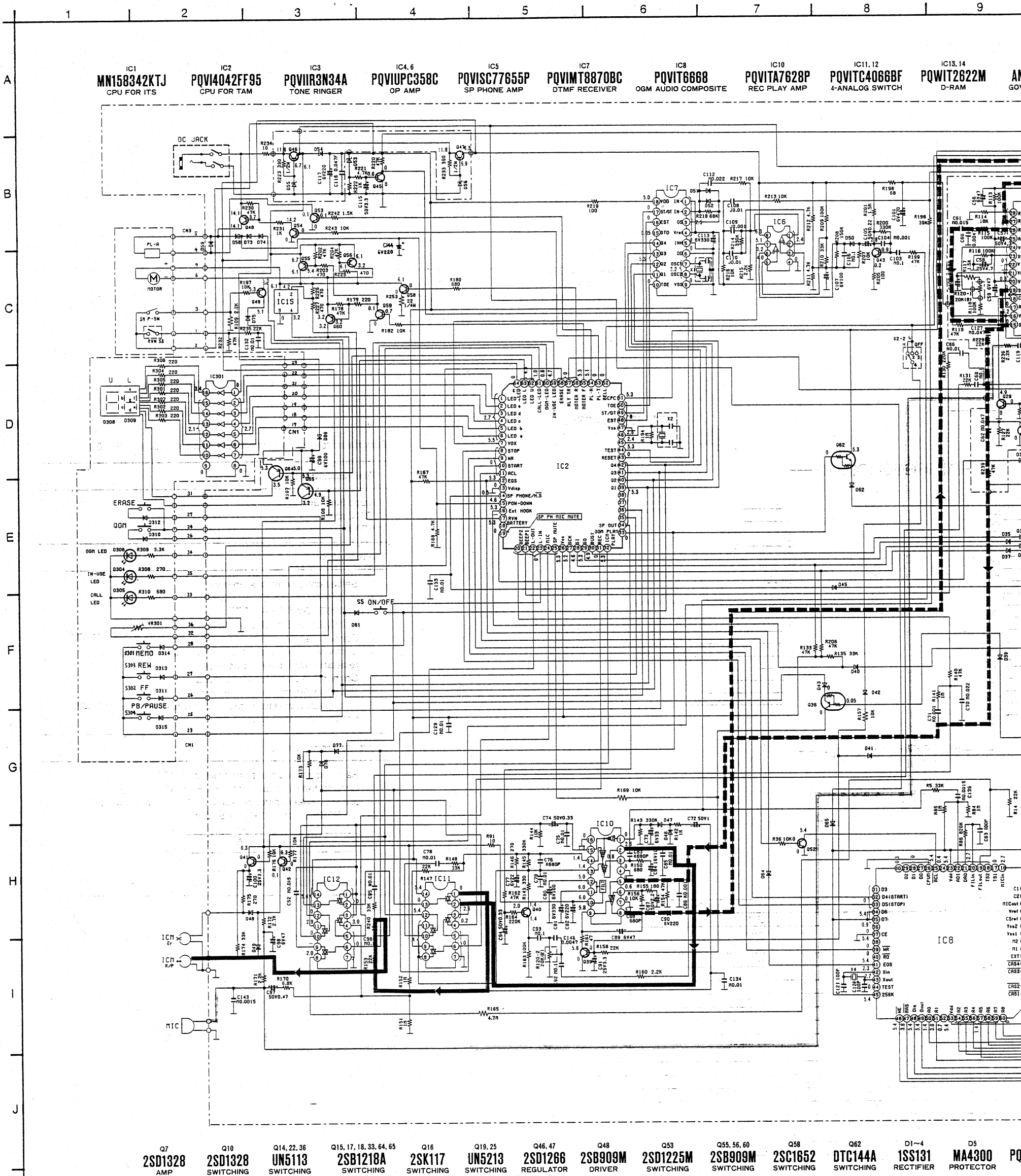


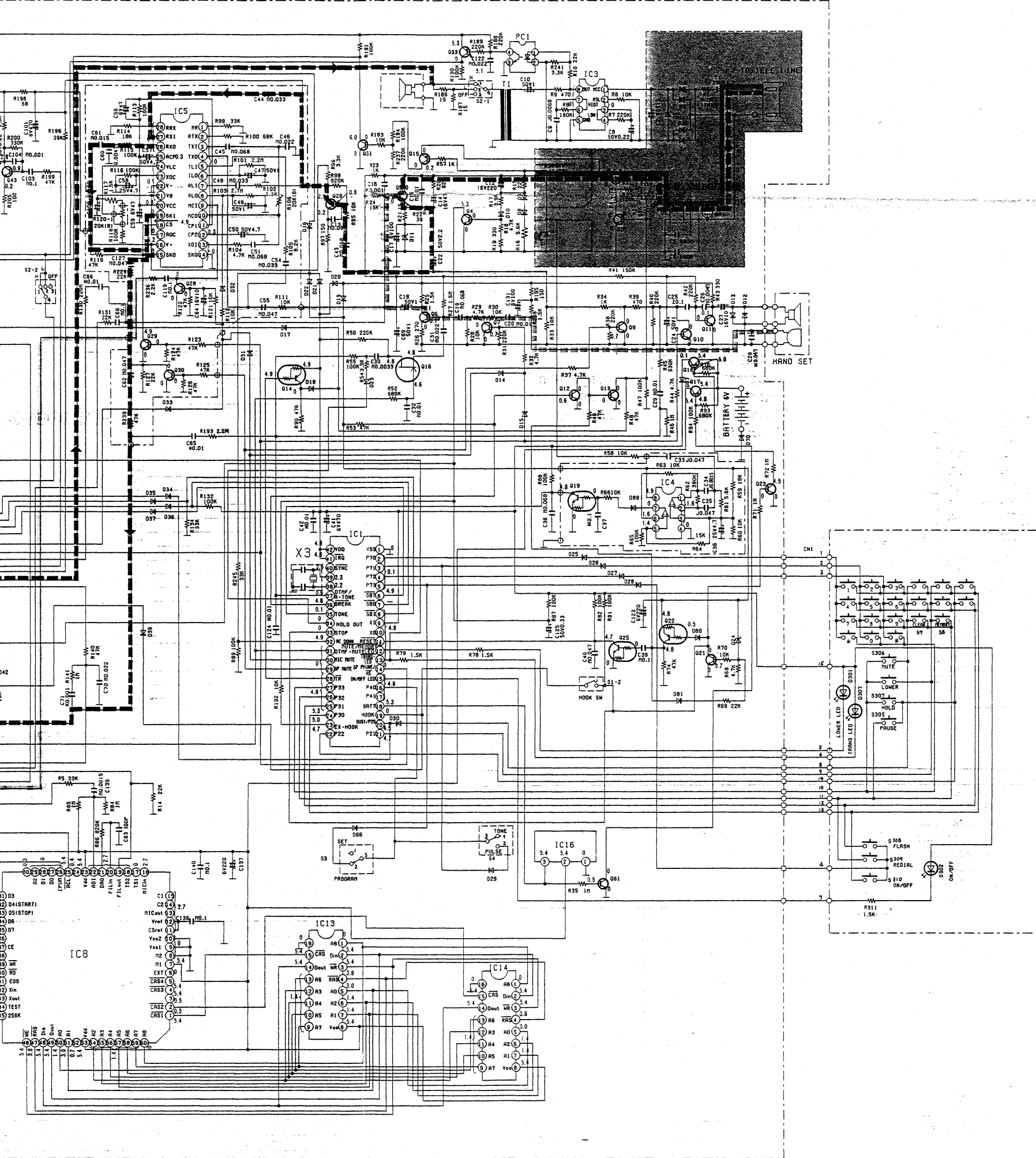
Fig. 11



SCHEMATIC DIAGRAM

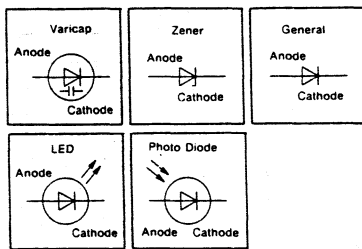
9 10 11 12 13 14 15 16

IC12 4066BF SWITCH
IC13,14 PQW12622M D-RAM
IC15 AN6851 GOVERNOR
IC16 MN1280R RESET
IC301 PQVIBA6251F LED DRIVER
Q1 2SA1400 SWITCHING
Q2 2SD662B SWITCHING
Q4,9,11~13,21,23,26,28~31,39~43,45,49,52,54,59,61 2SD1819A SWITCHING
Q5 2SC2120 SWITCHING
Q6 2SD1819A AMP



D1~4 1SS131 RECTIFIER
D5 MA4300 PROTECTOR
D6 PQVDS1YB40F1 RECTIFIER
D7 MA7180 SWITCHING
D8~10,12,13,15,17~20,23,25~32,34~37,40,43,46~52,54,58,59,61,62,64~66,73~75,77,78,80,81,87~89,310~315 1SS131 SWITCHING
D11 MA7051 SWITCHING
D14,16,21,22,33,39,42,45 1S1588 SWITCHING
D24 PQVDH22CLL02 SWITCHING
D41,70 MA700 SWITCHING
D53 PQVDMT24R7 LIMITER
D55,56 PQVDMT26R8 REGULATOR

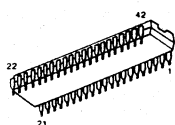
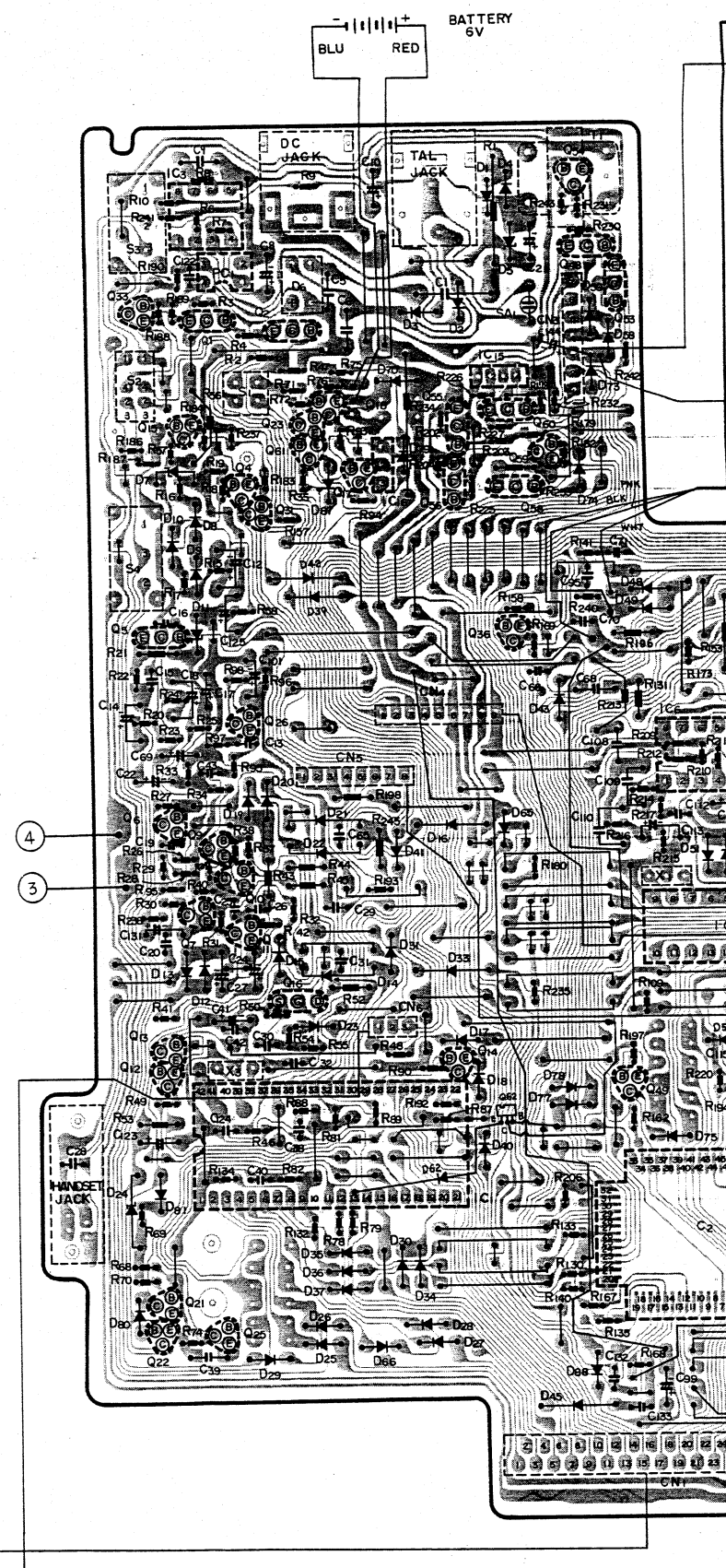
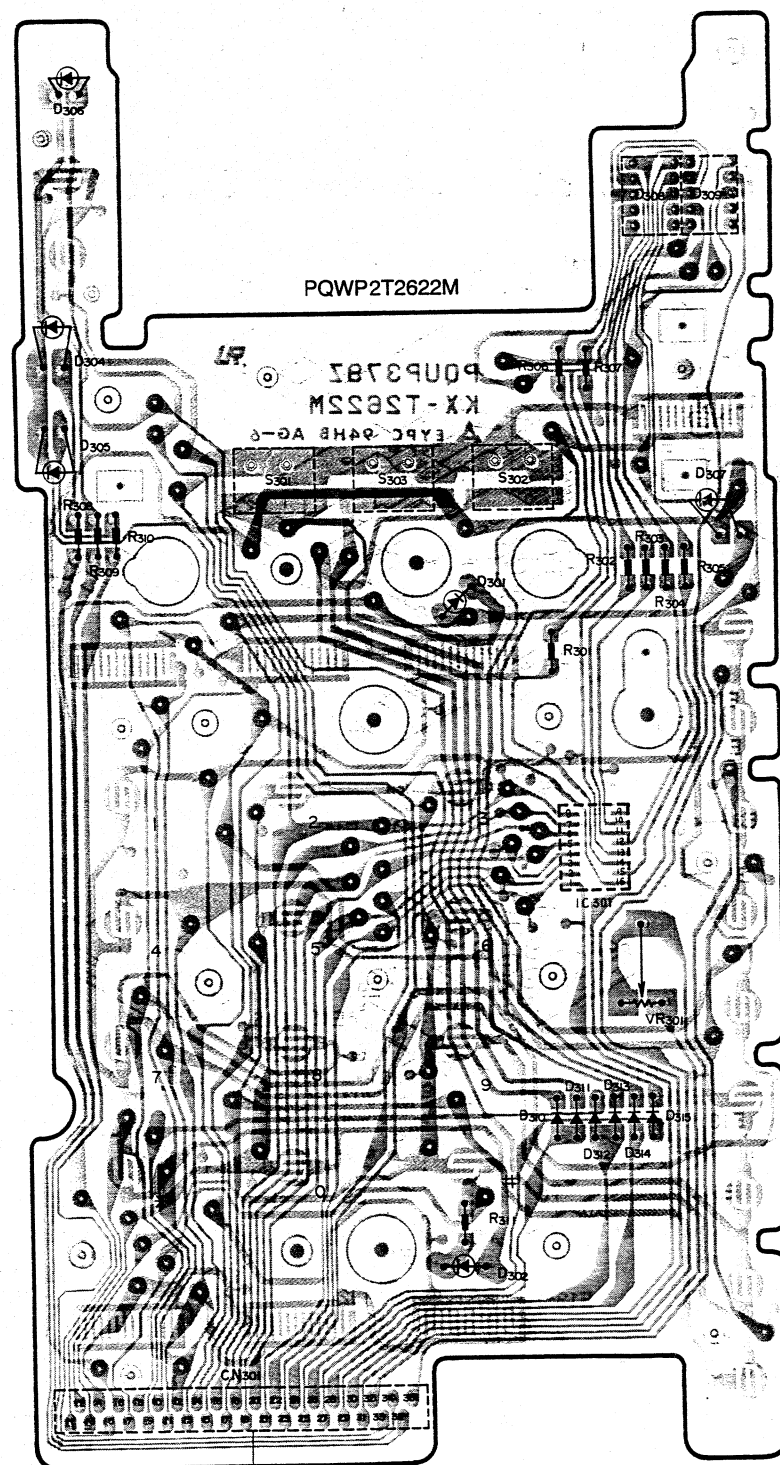
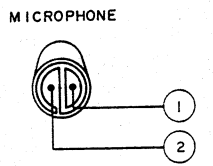
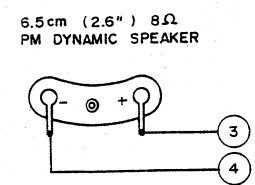
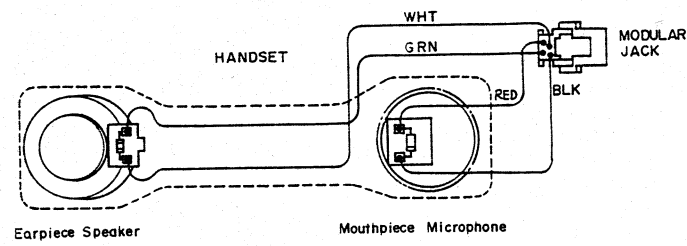
Important safety notice
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.



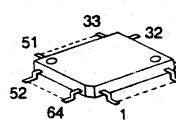
This schematic diagram may be modified at any time with the development of new technology.

CIRCUIT BOARD AND WIRING COM

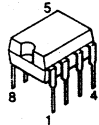
(Component View)



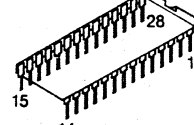
IC1



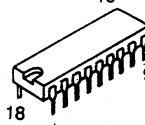
IC2



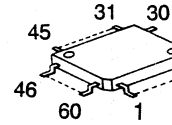
C3, 4, 6



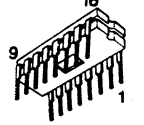
IC5



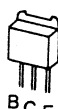
IC7



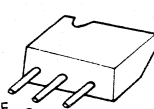
IC8



IC10



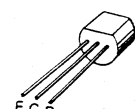
Q1



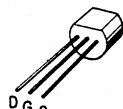
Q2



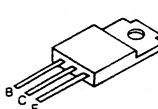
Q4, 6, 7, 9~15, 17~19
21~23, 25, 26, 28~31,
33, 36, 39~43, 45, 49,
52, 54, 59, 61, 64, 65



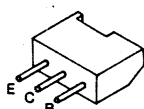
Q5



Q16



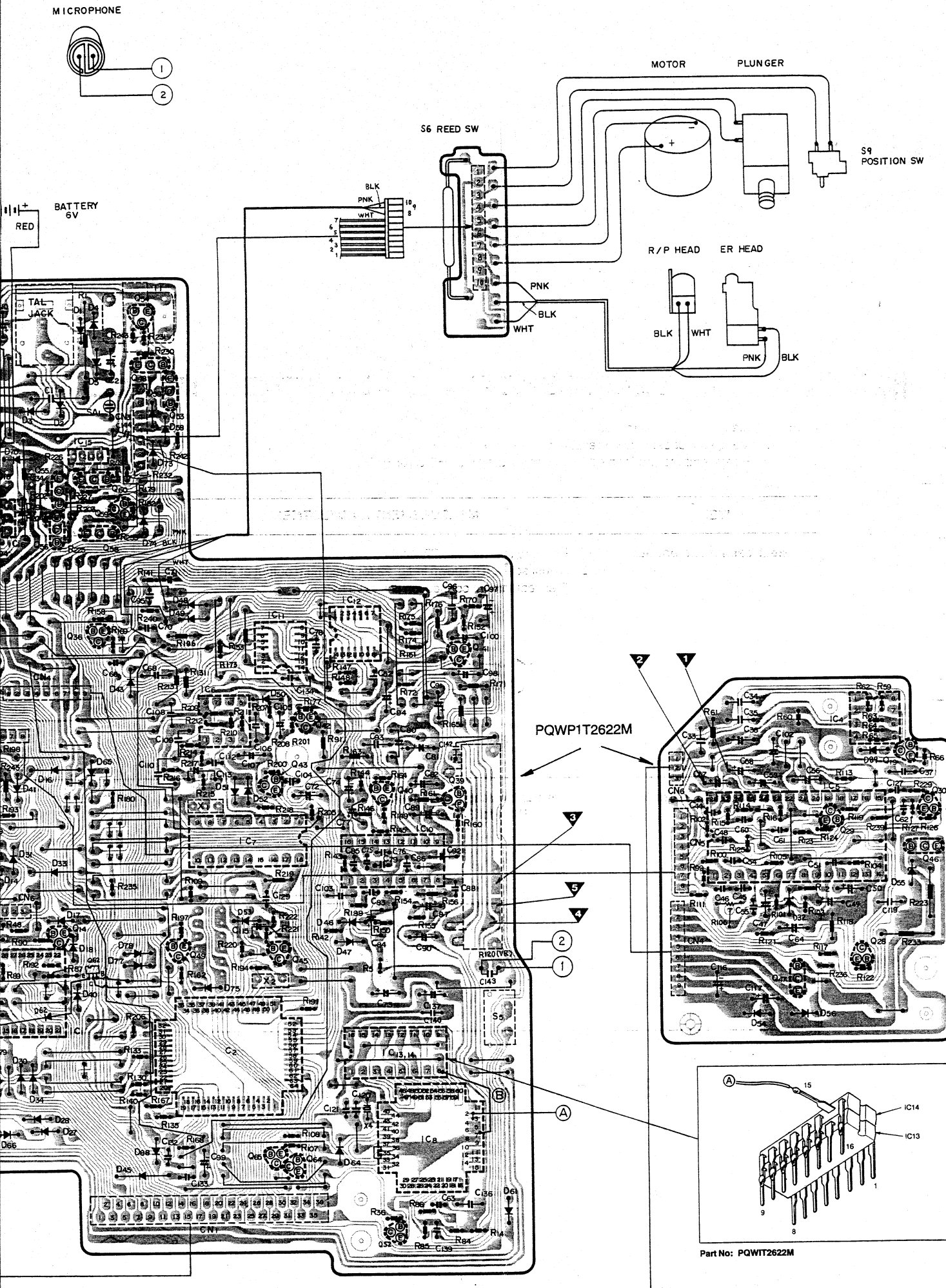
Q46, 47



Q48, 53, 55, 56, 58, 60,
62

AND WIRING CONNECTION DIAGRAM

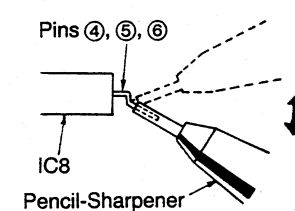
(Component View)

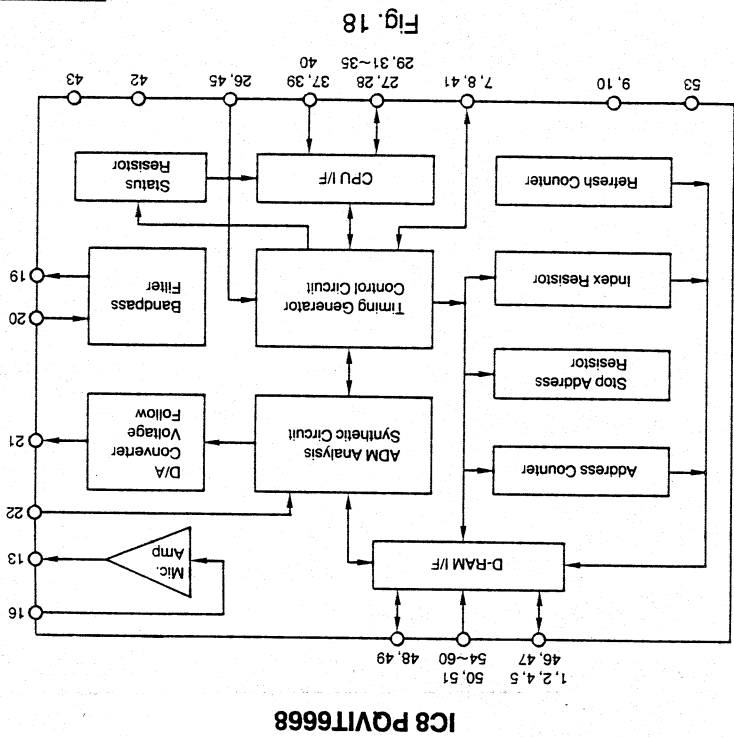


 IC10	 IC11, 12	 IC15	 IC16	 IC301
 D1~37, 39~43, 45~56, 58, 59, 61, 62, 64~66, 70, 73~75, 77, 78, 80, 81, 87~89, 310~315	 D301, 302, 306	 D304, 305	 D307	

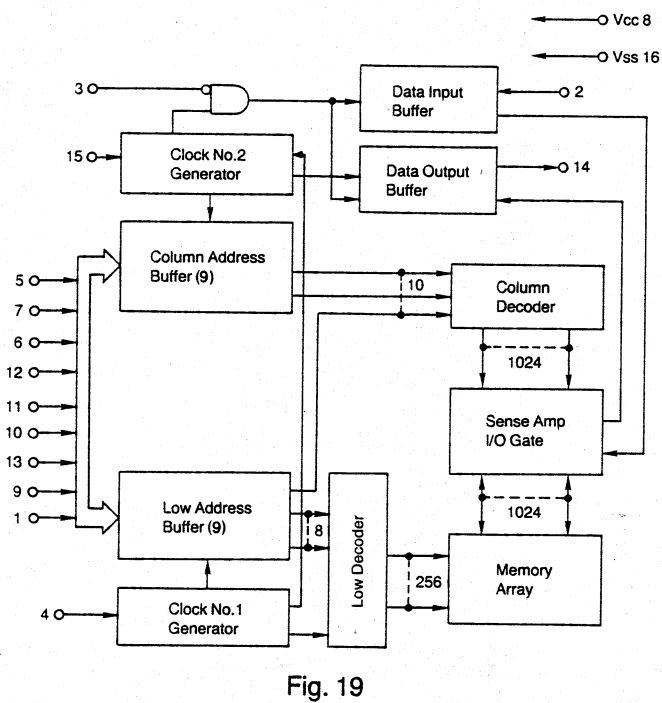
■ HOW TO REPAIR IC8

1. Remove the old IC8.
2. Before soldering the new IC8, first cut the pins ④, ⑤, ⑥ as below.
3. Solder the new IC8 at the P.C. Board.
4. Solder the pin ⑩ of IC14 and the pins ②, ③ of IC8 with the lead wire (See above ①).
5. Solder the pin ⑧ of IC14 and the pin ⑦ of IC8 with the lead wire (See above ②).
6. Connect the pin ④ and ⑤ of IC8.

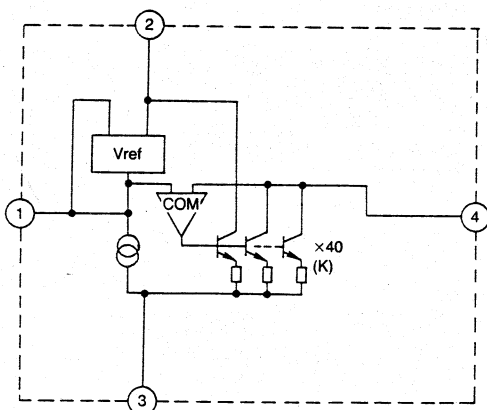




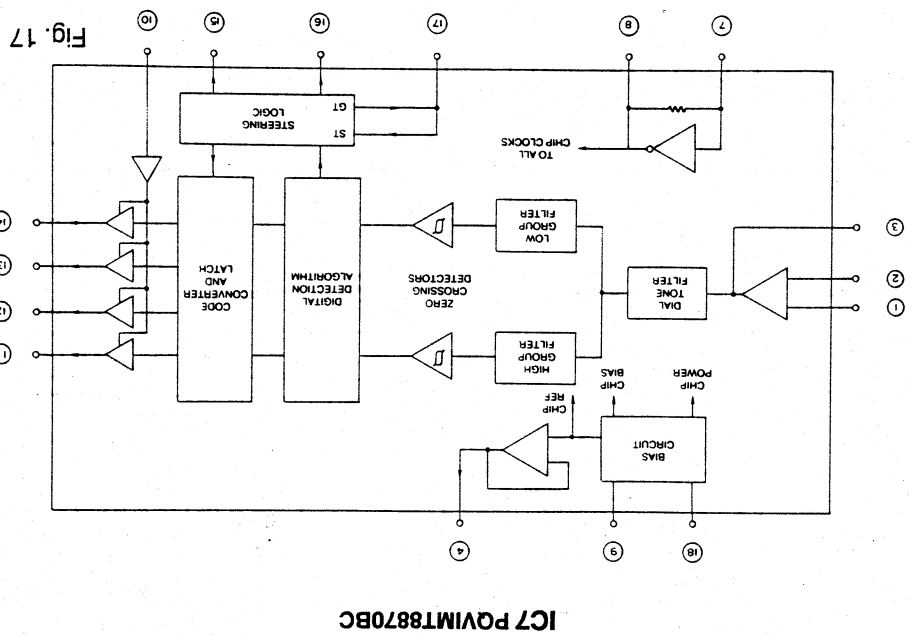
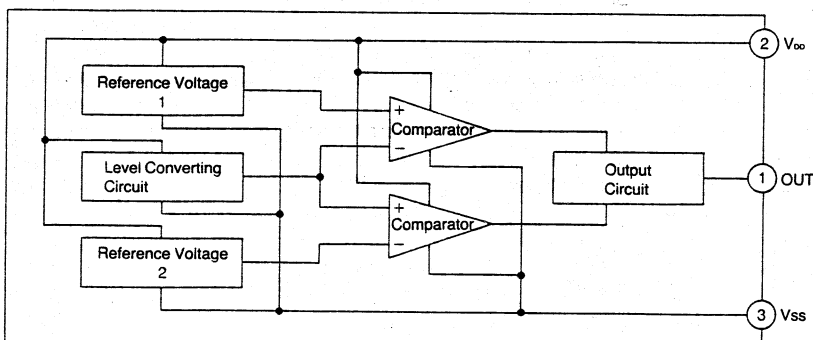
IC13, 14 PQWIT2622M



IC15 AN6651

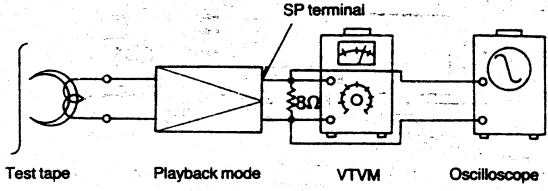
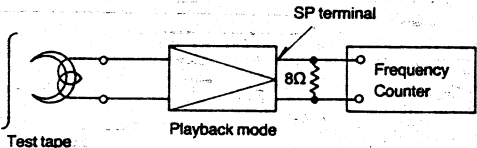


IC16 MN1280R



MEASUREMENT AND ADJUSTMENT METHOD

- Notes:
1. Make sure heads are clean.
 2. Make sure capstan and pressure roller are clean.
 3. Room temperature for measuring and adjusting: $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)

ITEM	MEASUREMENT & ADJUSTMENT	
1. Head azimuth adjustment	1. Play back test tape (QZZMWA). 2. Adjust screw (B) shown in fig. 23 for maximum output at SP terminal. (Test equipment connection is shown below.)  Fig. 22	*Record/p
2. Tape speed adjustment	1. Play back test tape (QZZMWA). 2. Adjust R301 for 3000 ± 50 Hz on frequency counter reading.  Fig. 24	

EXTENSION CABLE CONNECTING METHOD

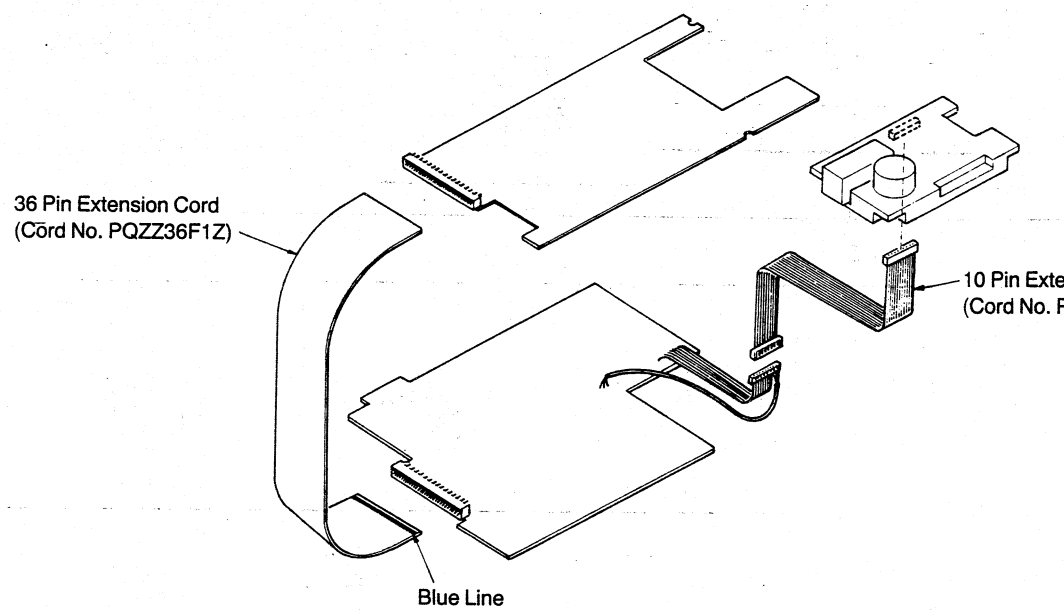


Fig. 25

ADJUSTMENT METHOD

ADJUSTMENT	REMARKS
imum output at SP terminal. low.) VTVM Oscilloscope	*Record/playback head (B) Fig. 23
ey counter reading. Frequency Counter	

CONNECTING METHOD

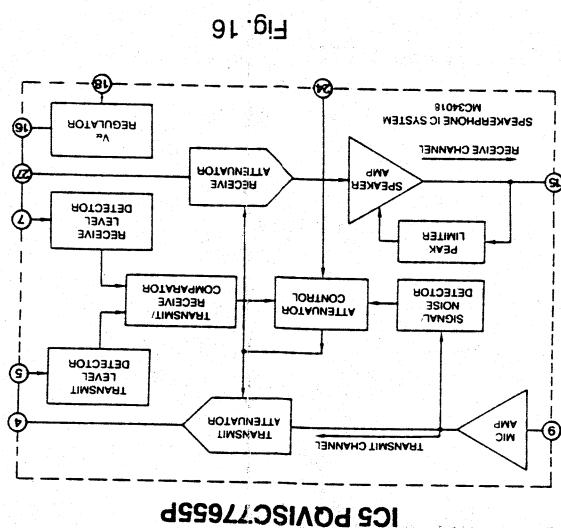
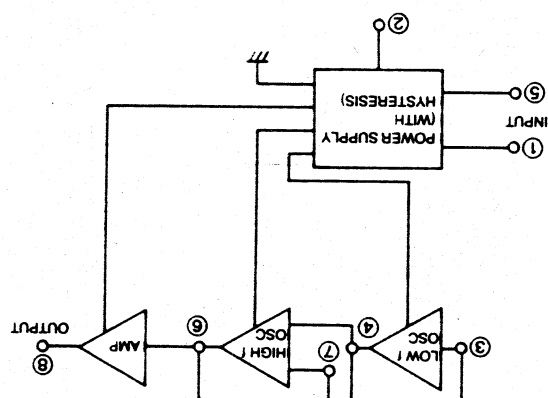


Fig. 15



IC3PQVIR3N34A

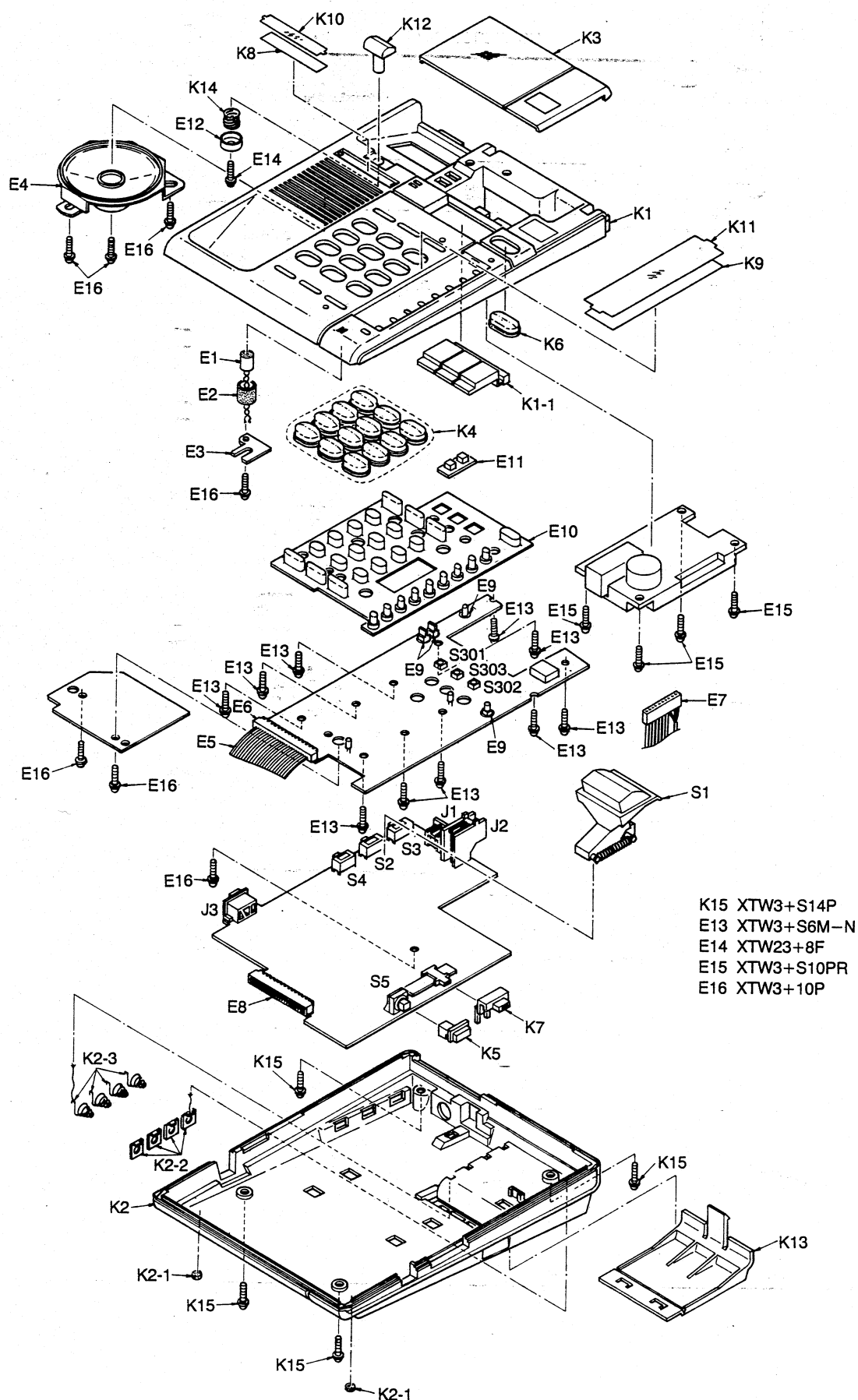


Fig. 26

Service Manual

Telephone Equipment

KX-T2620, KX-T2620-A

KX-T2620-B, KX-T2622

KX-T2622-A, KX-T2622-B

Supplement

AUTO-LOGIC™
EASA-PHONE®

ITS Integrated
Telephone System

ADDITION OF PARTS

Subject: Addition of cabinet color variation (Ash White).

Model : KX-T2622-A only

REPLACEMENT PARTS LIST

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remarks	Price
		KX-T2622-A (for Ash white cabinet)			
D308, 309	LED	PQVDLA301	2		
S2	Switch, Ring	PQSS3B10Y	1		
S3, 4	Switch, Memory, Tone/Pulse	PQSS2A27Y	2		
K1	Upper Cabinet Ass'y	PQYMT2622MA8	1		
K1-1	Button, Memo, Rewind, Fast Forward	PQBCX28Z1	1		
K2	Lower Cabinet Ass'y	PQYFT2622MA8	1		
K3	Cassette Lid Ass'y	PQYQT2622MA7	1		
K4	Button, key Station	PQBCX31Z1	1		
K5	Button, Answer System On/Off	PQBC131Y1	1		
K6	Button, Playback/Pause	PQBC133Y1	1		
K7	Knob, Volume Control	PQBD71Z1	1		
K8	Telephone Card	PQHP532X	1		
K9	Telephone Card	PQHP560X	1		
K12	Handset Holder	PQKE32X3	1		
K13	Battery Cover	PQKK34Z8	1		
E10	Button, 12 key	PQSE62X	1		
E11	Button, 2 key	PQSE63Y	1		
H1	Handset Ass'y	PQJX2PN203Y	1		
H1-1	Lower Cabinet	PQKM36J8	1		
H1-2	Upper Cabinet	PQKF34W8	1		
H1-7	Rubber Cap	PQHG402Z	2		
A2	Curl Cord	PQJA30R	1		
A5	Wall Mount Bracket	PQKL13Z1	1		
P5	Gift Box	PQPK528Z	1		

Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii Inc.
91-238 Kauhi St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De Infanteria, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

3413

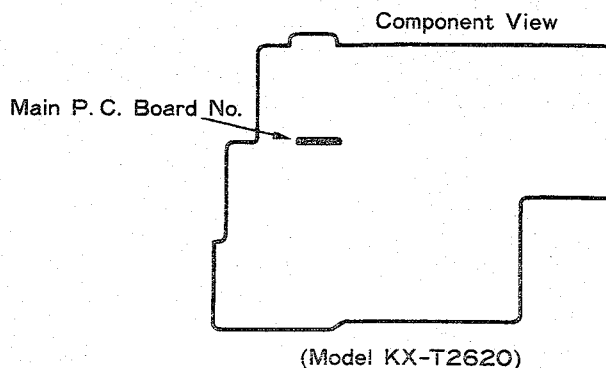
CHANGE OF PARTS

PARTS COMPARISON TABLE

Ref. No.	Part Name & Description	Part No.		Pcs/Set	Remarks
		Original	Supplement		
Model KX-T2620					
M3	Flywheel Ass'y	PQFF9904Z	PQFF9908Z	1	
M16	Mechanism Chassis Ass'y	PQFC9904Y	PQFC9904X	1	
IC2	IC	PQVI4042FG22	PQVI4042FG56	1	
S1	Switch, Hook	PQSH1B12Z	PQSH1B12Y	1	△
S304, S305	Switch, CPC, Rec Time	ESD-10912	ESD-10913	2	
K5	Button, Answer System On Off	_____	PQBC131Y1	1	
K9	Telephone Card	PQHP564Z	PQHP564Y	1	
E5	Flat Cable	PQJE52Z	PQJE59Z	1	S
Model KX-T2620-A					
M3	Flywheel Ass'y	PQFF9904Y	PQFF9908Z	1	
K9	Telephone Card	PQHP564Z	PQHP564Y	1	
E5	Flat Cable	PQJE52Z	PQJE59Z	1	S
Model KX-T2620-B					
E5	Flat Cable	PQJE52Z	PQJE59Z	1	S
Model KX-T2622					
M3	Flywheel Ass'y	PQFF9904Z	PQFF9908Z	1	
M16	Mechanism Chassis Ass'y	PQFC9904Z	PQFC9904X	1	
M25	Spring	PQFS81Z	PQFS100Z	1	
IC1	IC	MN158342KTJ	MN158342KTJ1	1	
IC2	IC	PQVI4042FF95	PQVI4042FG57	1	
D308, D309	LED (Green → Amber)	PQVDLA301	PQVDLA301YB	2	
S1	Switch, Hook	PQSH1B12Z	PQSH1B12Y	1	△
K1-1	Button, Memo, Rewind, FF	PQBCX28Z	PQBCX28Z2	1	
K4	Button, Key Station	PQBCX31Z	PQBCX31Z2	1	
K9	Telephone Card	PQHP560Y	PQHP560W	1	S
E5	Flat Cable	PQJE51Z	PQJE57Z	1	S
E10	Button, 12Key	PQSE62Z	PQSE62Y	1	
A5	Wall Mount Bracket	PQKL13Z	PQKL13Z0	1	
Model KX-T2622-A					
M3	Flywheel Ass'y	PQFF9904Y	PQFF9908Z	1	
M25	Spring	PQFS81Z	PQFS100Z	1	
K1-1	Button, Memo, Rewind, FF (For Black Cabinet)	PQBCX28Z	PQBCX28Z2	1	
K4	Button, Key Station (For Black Cabinet)	PQBCX31Z	PQBCX31Z2	1	
K9	Telephone Card (For Black Cabinet)	PQHP560Y	PQHP560W	1	S
E5	Flat Cable	PQJE51Z	PQJE57Z	1	S
A5	Wall Mount Bracket (For Black Cabinet)	PQKL13Z	PQKL13Z0	1	
Model KX-T2622-B					
E5	Flat Cable	PQJE51Z	PQJE57Z	1	S

• For Model KX-T2620

Main P.C.Board No.	Ref No.	Part No.
PQUP404Z	S7	PQSH1A09Z
	K5	PQBC131Z
PQUP404Y	S7	EVQ-QBH08T
PQUP404X	K5	PQBC131Y1



Service Manual

Telephone Equipment

KX-T2321, KX-T2325-A, KX-T2341
KX-T2345-B, KX-T2420-A, KX-T2442-A
KX-T2620-A, KX-T2622-A, KX-T2622-B
KX-T3135-B

(For U.S.A.)

KX-T2321, KX-T2341, KX-T2345
KX-T2422, KX-T3135

(For Asia, Latin America, Middle Near East and Africa areas)

Supplement

EASA-PHONE



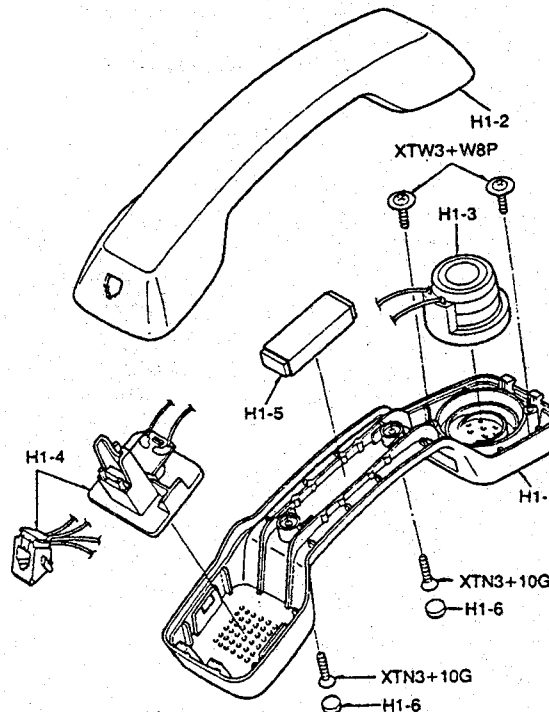
Integrated
Telephone System

Please use this manual together with the service manuals for above models.

ADDITION OF HANDSET

Subject: New type handset has been added from production of Aug. 1987 onward.

HANDSET PARTS LOCATION



Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

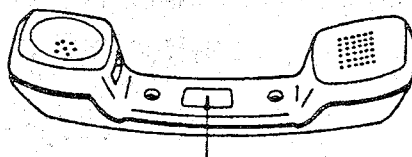
Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De infanteria, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

Panasonic Hawaii Inc.
91-238 Kauhii St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

Model KX-T2325-A, KX-T2345-B (For U.S.A.)
Model KX-T2345 (For Middle Near East)

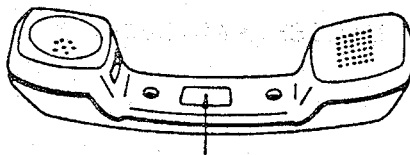


Handset No.
JX2PB403YA

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remark
H1	Handset Assembly	PQJX4Z	1	S
H1-1	Lower Cabinet	PQKM121Z8	1	
H1-2	Upper Cabinet	PQKF104Z8	1	
H1-3	Earpiece Speaker	PQAX4P03Z	1	
H1-4	Mouthpiece Microphone Assembly	PQWMJX403Y	1	
H1-5	Weight	PQHM32Y	1	
H1-6	Rubber Cap	PQHG695Z	2	

Model KX-T2321, KX-T2341, KX-T2620-A, KX-T2622-A (For U.S.A.)
(Ash White)

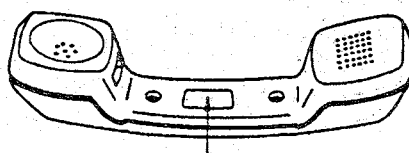
Model KX-T2321, KX-T2341 (For Asia, Laten America, Middle Near East and Africa areas)



Handset No.
JX2PN403YA

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remark
H1	Handset Assembly	PQJX2PN203Y	1	S
H1-1	Lower Cabinet	PQKM121V82	1	
H1-2	Upper Cabinet	PQKF104Z82	1	
H1-3	Earpiece Speaker	PQAX4P03Z	1	
H1-4	Mouthpiece Microphone Assembly	PQWMJX403Y	1	
H1-5	Weight	PQHM32Y	1	
H1-6	Rubber Cap	PQHG695W	2	

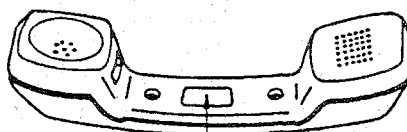
Model KX-T2420-A, KX-T2422-A (For U.S.A.)
 Model KX-T2422 (For Middle Near East)



Handset No.
JX2PG403YA

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remark
H1	Handset Assembly	PQJX4X	1	S
H1-1	Lower Cabinet	PQKM121X7	1	
H1-2	Upper Cabinet	PQKF104Z7	1	
H1-3	Earpiece Speaker	PQAX4P03Z	1	
H1-4	Mouthpiece Microphone Assembly	PQWMJX403Y	1	
H1-5	Weight	PQHM32Y	1	
H1-6	Rubber Cap	PQHG695Y	2	

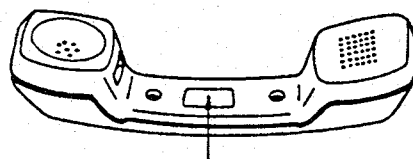
Model KX-T2622-A, KX-T2622-B (For U.S.A.)
 (Black)



Handset No.
JX2PM403YA

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remark
H1	Handset Assembly	PQJX2PM201X	1	S
H1-1	Lower Cabinet	PQKM121W0	1	
H1-2	Upper Cabinet	PQKF104Z0	1	
H1-3	Earpiece Speaker	PQAX4P03Z	1	
H1-4	Mouthpiece Microphone Assembly	PQWMJX403Y	1	
H1-5	Weight	PQHM32Y	1	
H1-6	Rubber Cap	PQHG695X	2	

Model KX-T3135-B (For U.S.A.)
 Model KX-T3135 (For Middle Near East)



Handset No.
JX2PE403YA

Ref. No.	Part Name & Description	Part No.	Pcs/Set	Remark
H1	Handset Assembly	PQJX2PE203Y	1	S
H1-1	Lower Cabinet	PQKM121Y81	1	
H1-2	Upper Cabinet	PQKF104Z81	1	
H1-3	Earpiece Speaker	PQAX4P03Z	1	
H1-4	Mouthpiece Microphone Assembly	PQWMJX403Y	1	
H1-5	Weight	PQHM32Y	1	
H1-6	Rubber Cap	PQHG695W	2	

Note: The S mark indicates service standard parts and may differ from production parts.